Welcome

RETScreen's Clean Energy Policy Toolkit

Clean Energy Solutions Center Webinar
26 April 2013

RETScreen's Mission:
Empower Cleaner Energy Decisions Worldwide

What is RETScreen?

- World's leading clean energy decision-making software
  - Energy efficiency; heating & cooling; power generation; and cogeneration
    - Fossil fuels
    - Renewable energy
  - 36 languages covering 2/3rds Earth's population
- 372,000+ users in 222 countries & territories
  - 40,000+ new users each year
  - 500+ universities & colleges use for training & research
  - Over $8 billion in direct user savings since 1998

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Example of Project Facilitated by RETScreen

Photovoltaic Water Pumping System in Africa

Sasso s.n.c., Italy

"We have used RETScreen to design different solar pumping systems installed in Africa."

Armando Martinez,
Renewable Energy Consultant

Photo credit:
Armando Martinez

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Example of Project Facilitated by RETScreen

RETSCREEN® INTERNATIONAL www.retscreen.net

Wind Farm in Ireland (7 Turbines x 650 kW)

Sustainable Energy Authority of Ireland

2003 User Survey Summary:

RETScreen Software used for 20 wind energy projects built or under construction, totalling 100 MW and an investment of $210 million.

Paul Kellett,
Technical Manager

Photo credit:
Sustainable Energy Authority of Ireland

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Overview of *RETScreen Suite* Software

RETScreen Training Institute

RETScreen® Suite

RETScreen Software Suite

Downloading and running **RETScreen Software Suite** will install two separate programs:

RETScreen 4 is an Excel-based clean energy project analysis software tool that helps decision makers quickly and inexpensively determine the technical and financial viability of potential renewable energy, energy efficiency and cogeneration projects.

RETScreen Plus is a Windows-based energy management software tool that allows project owners to easily verify the ongoing energy performance of their facilities.

Also available on RETScreen website:

REFRIG3 is an Excel-based RETScreen Energy Efficient Arena & Supermarket Project Model (Version 3 format)

RETScreen® International

www.retscreen.net

Clean Energy Project Analysis Software

Five Step Standard Analysis

START Settings & Site Conditions

Enter data in shaded cells from top to bottom of each worksheet

1 Energy Model

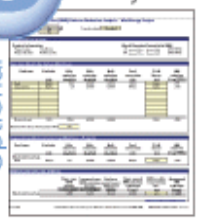
Sub-Worksheet(s)

2 Cost Analysis

Click on blue hyperlinks or floating icon to access integrated features

3 Emission Analysis

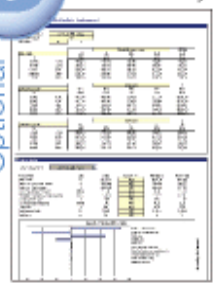
Optional



4 Financial Analysis

5 Sensitivity & Risk Analysis

Optional



Ready to make a decision

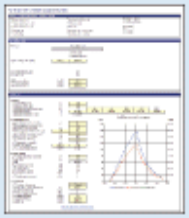
Integrated Features

Climate Data

Product Data

Online Manual

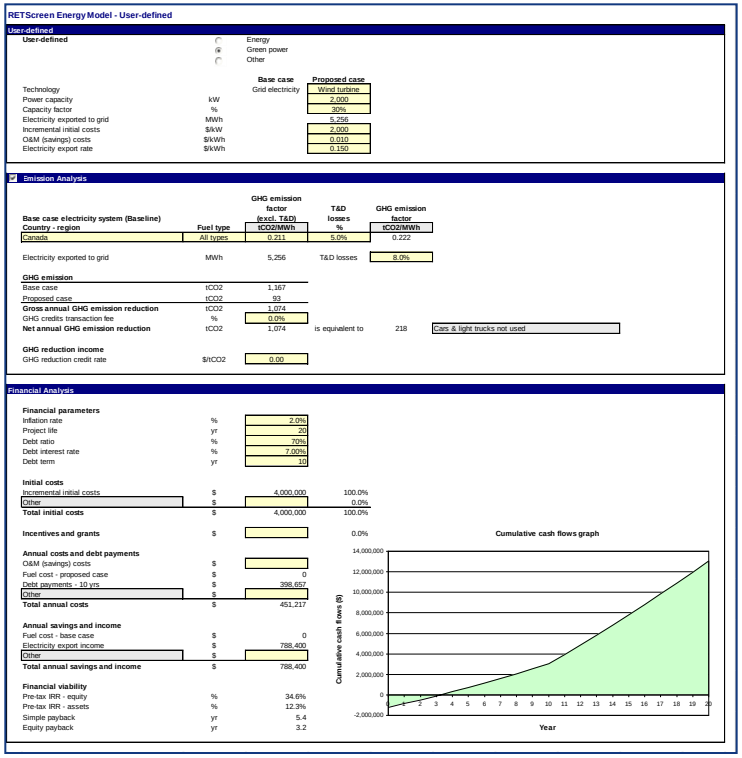
Tools



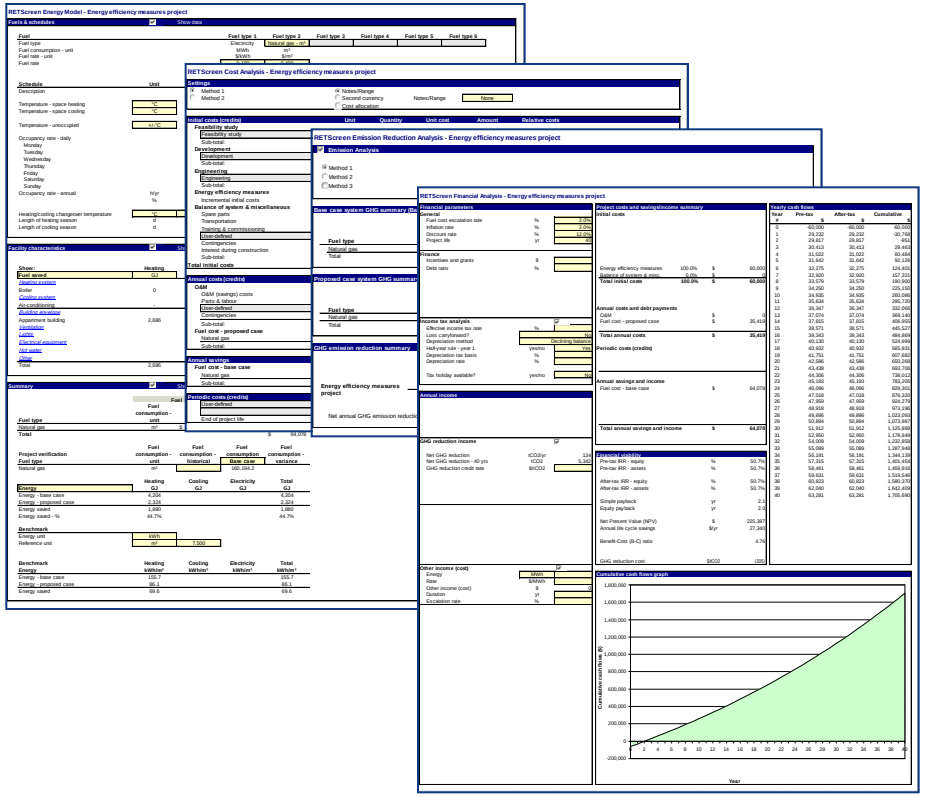
- Distance Learning Course
- Training Material
- Engineering Textbook
- Case Studies
- Marketplace & Maps

Analysis Type (Start Sheet)

Method 1



Method 2



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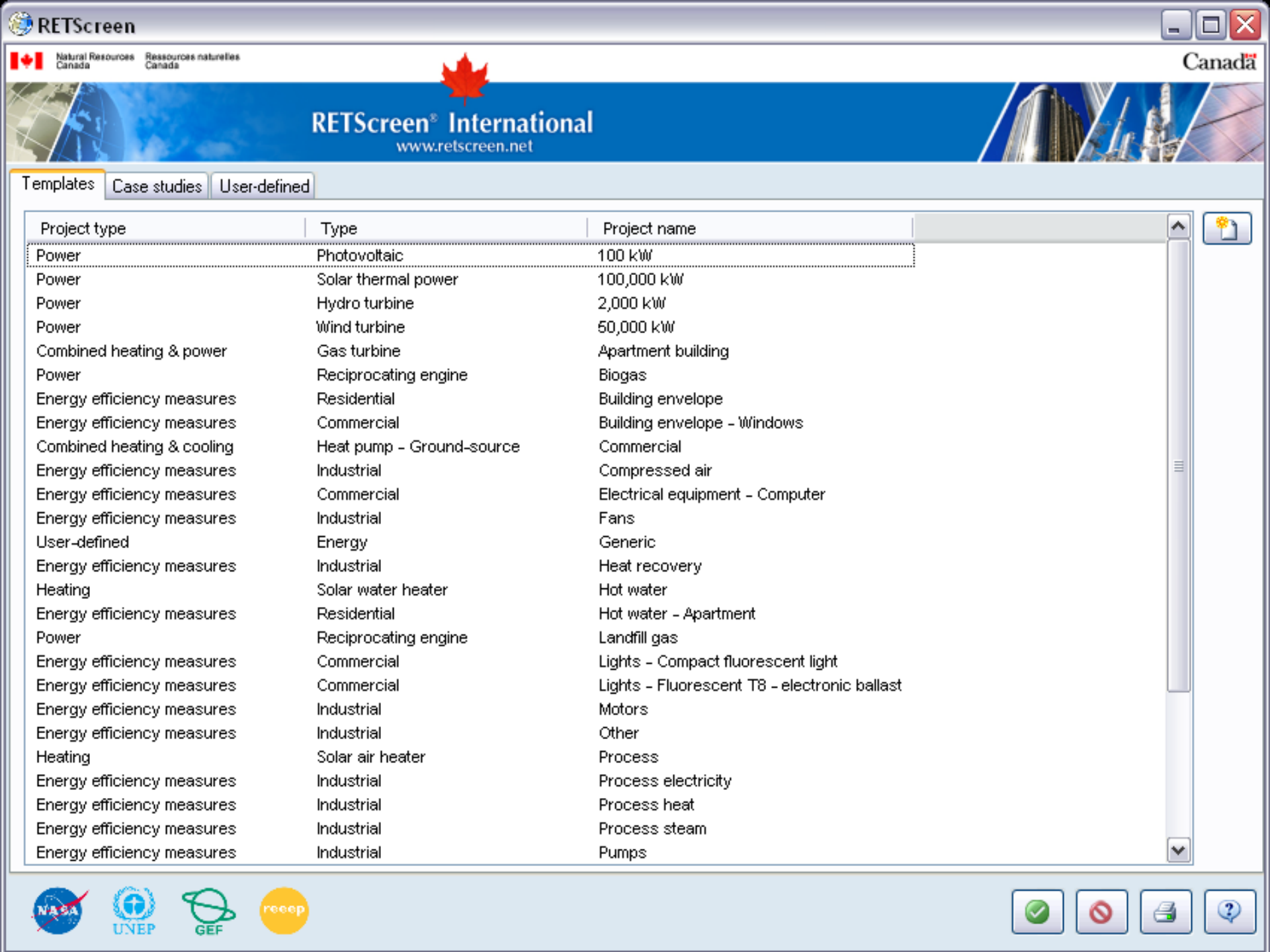
RETScreen
Natural Resources Canada
Ressources naturelles Canada
Canada
RETScreen® International
www.retscreen.net
Templates
Case studies
User-defined
Project type
Type
Project name
Power
Photovoltaic
100 kW
Power
Solar thermal power
100,000 kW
Power
Hydro turbine
2,000 kW
Power
Wind turbine
50,000 kW
Combined heating & power
Gas turbine
Apartment building
Power
Reciprocating engine
Biogas
Energy efficiency measures
Residential
Building envelope
Energy efficiency measures
Commercial
Building envelope - Windows
Combined heating & cooling
Heat pump - Ground-source
Commercial
Energy efficiency measures
Industrial
Compressed air
Energy efficiency measures
Commercial
Electrical equipment - Computer
Energy efficiency measures
Industrial
Fans
User-defined
Energy
Generic
Energy efficiency measures
Industrial
Heat recovery
Heating
Solar water heater
Hot water
Energy efficiency measures
Residential
Hot water - Apartment
Power
Reciprocating engine
Landfill gas
Energy efficiency measures
Commercial
Lights - Compact fluorescent light
Energy efficiency measures
Commercial
Lights - Fluorescent T8 - electronic ballast
Energy efficiency measures
Industrial
Motors
Energy efficiency measures
Industrial
Other
Heating
Solar air heater
Process
Energy efficiency measures
Industrial
Process electricity
Energy efficiency measures
Industrial
Process heat
Energy efficiency measures
Industrial
Process steam
Energy efficiency measures
Industrial
Pumps
NASA
UNEP
GEF
reeep

Microsoft Excel - RETScreen4-1

File Edit View Insert Format Tools Data Window Help RETScreen

Lang_Switch | English - Anglais

Natural Resources Canada | Ressources naturelles Canada

Canada

RETScreen® International

www.retscreen.net

Clean Energy Project Analysis Software

Project information

See project database

Project name	Scenario 1
Project location	Toronto West
Prepared for	OPA
Prepared by	CETC-Varennes
Project type	Power
Technology	Wind turbine
Grid type	Central-grid
Analysis type	Method 2
Heating value reference	Higher heating value (HHV)
Show settings	☑
Language - Langue	English - Anglais
User manual	
Currency	
Units	

Arabic - العربية
Bengali - বাংলা
Bulgarian - Български
Chinese - 中文
Croatian - Hrvatski
Czech - Česko
Danish - Dansk
Dutch - Nederlands

Site reference conditions

Select climate data location

Climate data location	Toronto Il Arpt Aut
Show data	☐

Start | Energy Model | Cost Analysis | Emission Analysis | Financial Analysis | Risk Analysis | Tools

Ready

NUM

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Microsoft Excel - RETScreen4-1

File Edit View Insert Format Tools Data Window Help RETScreen

Lang_Switch | Chinese - 中文

Natural Resources Canada | Ressources naturelles Canada | Canada

RETScreen® International

www.retscreen.net

清洁能源项目分析软件

项目信息

见项目数据库

项目名称	Scenario 1
项目位置	Toronto West
接受方	OPA
制作方	CETC-Varennes
项目类型	发电
技术	风力发电机
电网类型	中央电网
分析类型	方法 2
热值参数	高位发热量
显示设置	☑
语言	Chinese - 中文
用户手册	
货币	
单位	

Chinese - 中文
Croatian - Hrvatski
Czech - Česko
Danish - Dansk
Dutch - Nederlands
English - Anglais
Farsi - پارسی
Finnish - Suomi

场地参比条件

选择气候数据的地点

气候数据地点	Toronto Il Arpt Aut
显示数据	☐

完成能源模型表

开始 / 能源模型 / 成本分析 / 排放量分析 / 财务分析 / 风险分析 / 工具 /

Ready NUM

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RETScreen Version 4

Hide Back Forward Print

Contents Index Search Favorites

- Centre Overview
- Software & Data
- Training Course
  - Clean energy project analysis
  - Energy efficiency
  - Heating / Cooling
  - Power
  - Combined heat & power (Cogeneration)
  - Legal aspects of energy projects
  - e-Textbook
  - Case studies / Templates
  - Figures & graphs
  - Photos
  - Training calendar
  - Other languages
- RETScreen Help & Contact Us

Legal aspects of energy projects

The high cost of developing comprehensive and cu
renewable energy and cogeneration projects. In su
the *RETScreen Clean Energy Legal Toolkit* has

This initiative was undertaken by NRCan/CanmetE
supported financially by a grant from the Renewab
by lawyers from leading American firms.

Training material

RETScreen - Legal Aspects of Clean Energy Pro

e-Textbook / Guides

RETScreen - Legal Aspects of Clean Energy Pro

Sample legal documents

Real property agreements
Green leases
Finance agreements
Engineering, procurement & construction agreeme
Fuel supply and O&M agreements
Power purchase agreements
Interconnection agreements
Energy performance contracts
Emissions/Environmental attributes trading agreem

The initiative has brought together sample legal do
time and costs associated with developing legal an
public stakeholder awareness and capacity regard

Many legal documents in a clean energy project ar
employment contracts, etc. In keeping with RETS
known agreements, those more specific to clean e
categories listed is not necessarily sequential. Not
energy projects but may still be useful as an inform

To facilitate discussion and information sharing, th

The Toolkit is also incorporated within the RETSc
RETScreen software.

Note

The RETScreen Training Course (i.e. the Toolkit p
and does not necessarily reflect the views of the G
its ministers, officers, employees or agents make a

Construction_Term_Loan_Agreement[1].doc - Microsoft Word

File Edit View Insert Format Tools Table Window Help Adobe PDF Acrobat Comments

100% Read

CONSTRUCTION AND TERM LOAN AGREEMENT

This CONSTRUCTION AND TERM LOAN AGREEMENT (as amended from time to time, this "**Agreement**") is entered into on _____, by and among ____, a _____ (the "**Borrower**"), the lenders named on the signature pages to this Agreement (the "**Lenders**"), and ____, as agent for the Lenders (together with its successors and assigns in that capacity, the "**Agent**").

RECITALS:

1. The Borrower intends to design, construct, own, and operate a ___-fired, ___ megawatt electric generating facility to be located in ____.

2. The Borrower has asked the Lenders to provide a portion of the financing for this facility, and the Lenders are willing to do so on the terms and conditions contained in this Agreement.

The parties therefore agree as follows:

ARTICLE 1

DEFINITIONS

Capitalized defined terms used in this Agreement have the meanings given to them in **Schedule X,** and the rules of construction set forth in **Schedule X** govern this Agreement.

ARTICLE 2

Page 1 Sec 1 1/57 At 2.5cm Ln 1 Col 1 REC TRK EXT OVR English (U.S

Start Skype™ -... Outlook T... C:\Docum... Microsoft ... Microsoft ... RETScree... Construc... 15:13

CLEAN ENERGY PROJECT ANALYSIS

The RETScreen Clean Energy Project Analysis Software is a unique decision support tool developed with the contribution of numerous experts from government, industry, and academia. The software, provided free-of-charge, can be used worldwide to evaluate the energy production and savings, costs, emission reductions, financial viability and risk for various types of Renewable-energy and Energy-efficient Technologies (RETs). The software (available in multiple languages) also includes product, project, hydrology and climate databases, a detailed user manual, and a case study based college/university-level training course, including an engineering e-textbook.

RETScreen 4, a major new edition of the RETScreen software, helps rapidly evaluate whether a proposed clean energy project makes sense and is worth further consideration. This presentation introduces RETScreen 4, highlights its new features, and describes the RETScreen approach to project analysis.

Training material
RETScreen video (2:02 minutes)
RETScreen - Introduction - Presentation slides (3.59 MB)
RETScreen - Introduction - Voice & slides (33:23 minutes)
RETScreen - Introduction - Speaker's notes

NASA video (1:39 minutes)
NASA Data - Overview - Presentation slides (5.88 MB)

e-Textbook / Guides
RETScreen - Introduction Clean Energy Project - e-Textbook chapter (2.64 MB)
RETScreen Engineering & Cases Textbook - entire e-Textbook (12.7 MB)*

Case studies / Templates
Power - Wind turbine - 50,000 kW
User-defined - Energy - Generic

Search for:

Overview of training course
Status of clean energy technologies
Clean energy project analysis with RETScreen
Greenhouse gas emission analysis with RETScreen
Financial & risk analysis with RETScreen
RETScreen summary

* Note that the "RETScreen Engineering & Cases Textbook - entire e-Textbook" includes most RETScreen e-textbook chapters. Additional new chapters, not included in the "entire e-Textbook," are also available (e.g. RETScreen - Legal Aspects of Clean Energy Projects - e-Textbook chapter).

RETScreen Training Institute

- RETScreen 101 - Introduction to Clean Energy Project Analysis (just completed)
- RETScreen 201 - Energy Efficiency Project Analysis
- RETScreen 202 - Heating & Cooling Project Analysis
- RETScreen 203 - Power Project Analysis
- RETScreen 301 - Cogeneration Project Analysis
- RETScreen 302 - Energy Performance Analysis

- **We do customized training!**

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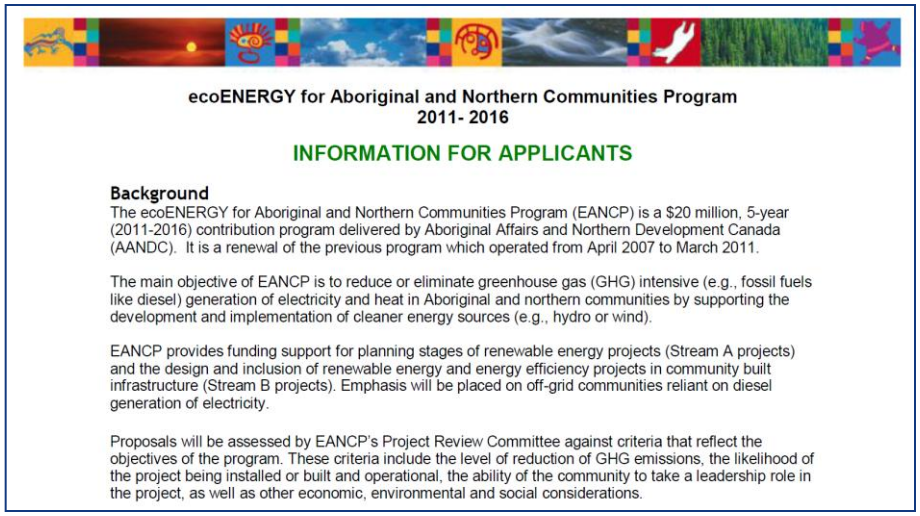
Clean Energy Policy Analysis With RETScreen®

Photo Credit: Strong, Steven DOE/NREL

Clean Energy Policies - Incentives

- Direct Cash Payments
  - Grants and Rebates
  - Performance-Based Payments
- Tax Incentives
  - Tax Credits
  - Tax Exemptions
  - Accelerated Depreciation
- Loan Programs



ecoENERGY for Aboriginal and Northern Communities Program
2011- 2016

INFORMATION FOR APPLICANTS

Background

The ecoENERGY for Aboriginal and Northern Communities Program (EANCP) is a $20 million, 5-year (2011-2016) contribution program delivered by Aboriginal Affairs and Northern Development Canada (AANDC). It is a renewal of the previous program which operated from April 2007 to March 2011.

The main objective of EANCP is to reduce or eliminate greenhouse gas (GHG) intensive (e.g., fossil fuels like diesel) generation of electricity and heat in Aboriginal and northern communities by supporting the development and implementation of cleaner energy sources (e.g., hydro or wind).

EANCP provides funding support for planning stages of renewable energy projects (Stream A projects) and the design and inclusion of renewable energy and energy efficiency projects in community built infrastructure (Stream B projects). Emphasis will be placed on off-grid communities reliant on diesel generation of electricity.

Proposals will be assessed by EANCP's Project Review Committee against criteria that reflect the objectives of the program. These criteria include the level of reduction of GHG emissions, the likelihood of the project being installed or built and operational, the ability of the community to take a leadership role in the project, as well as other economic, environmental and social considerations.

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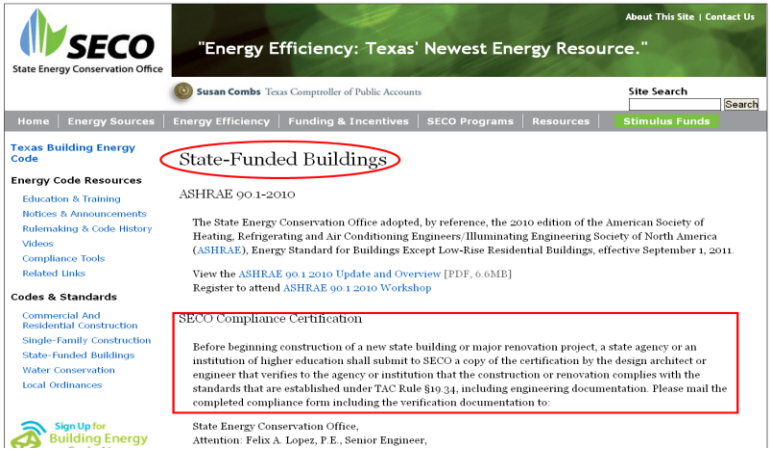
Clean Energy Policies - Regulations

- Building Code Mandates
- Favourable Permitting Rules
- Interconnection Standards



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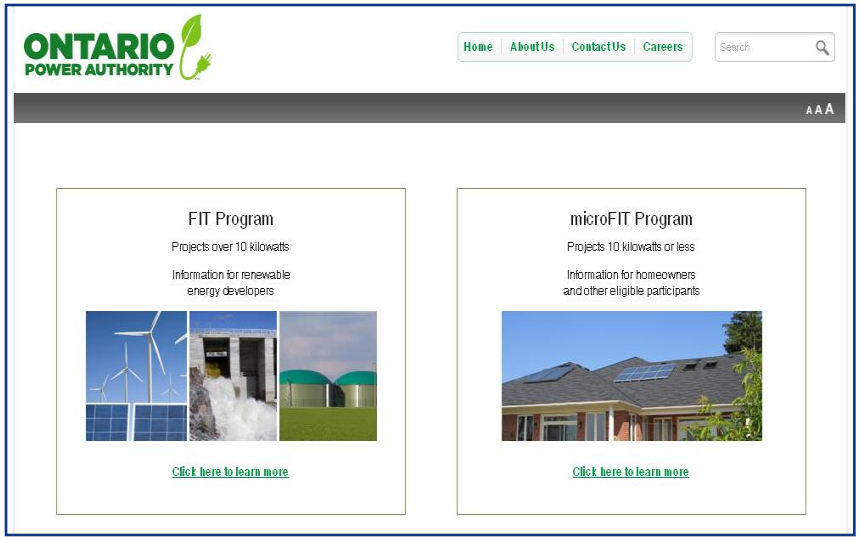
Clean Energy Policies - Hybrids

- Feed-in Tariffs
- Utility Quota Obligations
- Net Metering
- Emissions & Environmental Attributes Trading



RETScreen for Projects *and* Policy

RETScreen as a tool to demonstrate the viability of clean energy *projects*

But also…

…useful for planning, designing, implementing, and reviewing the viability of clean energy *policies*

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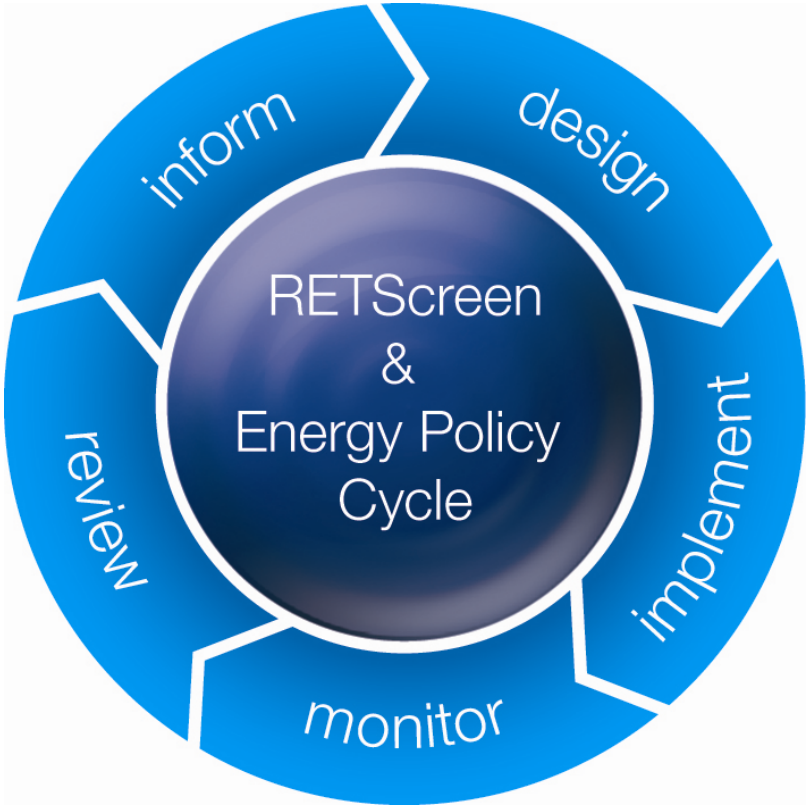
The Policy Cycle

- Inform
- Design
- Implement
- Monitor
- Review



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Examples of RETScreen Use for Policy

- International (UNFCCC)
- National (Canada)
- Sub-National (Texas)
- Municipal (Toronto)
- Utility (National Grid)

State of New Hampshire
Public Utilities Commission
21 S. Fruit Street, Suite 10, Concord, NH 03301-2429

STEP 1: INCENTIVE PRE-APPROVAL APPLICATION

FOR NON-RESIDENTIAL SOLAR THERMAL[1] AND SOLAR ELECTRIC SYSTEMS up to 100 KW or 100 KW EQUIVALENT

- System must become operational on or after November 1, 2010.
- Pre-approval will reserve your place in the funding queue. Once the facility has been installed at the site, applicant must then complete Step 2 by submitting a **final incentive request form.**
- The incentive pre-approval expires 9 months from the date this application is pre-approved and funding is reserved.
- When all available program funding has been reserved for approved projects, applicants that meet all program and project requirements will be placed on a waitlist. Projects placed on the waitlist are not guaranteed funding.

Because this application requires original signatures, no electronic copies will be accepted*

Technical Requirements

1. Any renewable energy system must comply with all manufacturers' requirements, installed according to manufacturer's recommendations, and meet all applicable requirements of the State Building Code pursuant to RSA 155-A:1, IV including the National Electric Code 2008 and the International Fire Code.
2. Any interconnection of the renewable energy system with your utility must comply with your Interconnection Agreement, the Puc 900 Net Metering Rules (if applicable), as well as any applicable tariffs governing interconnection.
3. Solar PV systems must have a manufacturer's rated panel output under standard test conditions (STC) of equal to or less than 100 kilowatts and must be certified by a nationally-recognized testing laboratory as meeting the requirements of UL 1703.
4. Systems shall include a labor warranty of no less than five years in order to qualify for a rebate.
5. Solar electric systems greater than 50 kW shall include a revenue grade meter to measure production of the system [and shall include data monitoring through a web-based system].
6. Solar thermal systems with a collector area of 500 sq. ft. or greater shall have an output meter and/or web-based temperature monitoring to measure system performance and shall track performance on a monthly basis, at a minimum.
7. All applicants shall submit: 1) a RETScreen modeling analysis and 2) a system schematic and/or construction drawings.
8. Self-installer labor costs and used equipment are not eligible for inclusion in total system costs.

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[5] Criteria for approval of computerized simulation model programs include: (a) The program is non-proprietary and available at no cost or for a small cost; (b) The simulation algorithms are available and documented; (c) Reliable and documented historical and real time weather data, compatible with the program, are available for the country were the project(s) are implemented; and (d) The program has been tested and bench marked to show that it is reliable and the results of such testing/bench marking in the public domain; and user support is available. At the time of approval of this version of this methodology, the only pre-approved model simulation program is RETScreen (<http://www.retscreen.net/>). Submittals may be made for requesting revision of this methodology to include other programs.

[6] Water consumption per day shall be assumed to follow a typical daily, per hour, pattern that can reasonably shown to be typical for the residence(s) for which the project SWH system(s) will serve.

[7] According to national or international standards, e.g. the Solar Rating and Certification Corporation certification, rating, and labelling program for solar collectors and complete solar water heating systems.

[8] Insolation and ambient temperature data must be obtained from globally accepted data sources, e.g. data published by the National Aeronautics and Space Administration (NASA) or the National Renewable Energy Laboratory (NREL). Data can be used only if they are for a location that can be demonstrated to be representative of the project location.

Indicative simplified baseline and monitoring methodologies
for selected small-scale CDM project activity categories

I.J. Solar water heating systems (SWH)(cont)

This approach is applicable to both residential and commercial SWH system

Project Eligibility Criteria

Projects must meet the following criteria in order to be eligible for EANCP funding:

- The applicant is an eligible recipient.
- The project will facilitate the engagement of Aboriginal peoples and / or northerners in a community driven strategy for addressing the use and provision of energy.
- The project will lead to the reduction or elimination of heat and / or electricity use from a conventional, more GHG-intensive source. For Stream A projects, the proposal must demonstrate that a completed and built project will result in 4,000 tonnes or greater of GHG reductions from a 'business as usual' scenario (i.e., conventional heat or electricity source) over the life-cycle of the project (usually considered to be 20 years).
- The project will have economic, environmental and social benefits for the community in which it is located.
- The community in which the project is located is supportive of the project and it can be demonstrated that the community has a vested interest in the successful outcome of the project.
- The project has not already received the maximum amount of funding from EANCP (see 'Maximum funding levels' below).
- The project will involve the incorporation or implementation of a proven technology that is appropriate to the application, location, etc. Research and development, pilot or demonstration projects are not eligible for funding.
- The applicant has completed and submitted the following:
    1. Proposal for project funding
    2. Project budget template: Both worksheets must be completed: 'Expenditure details' and 'Contributions from other sources'
    3. Letter of support for the project from the community
    4. RETScreen: The RETScreen Clean Energy Project Analysis Software is described as a 'decision support tool' for renewable energy and energy efficiency projects. A user can enter data into RETScreen about their project (like site conditions, systems characteristics, costs, etc) and about their current or 'base case' electricity and / or heating systems and RETScreen will output estimated energy production and savings, costs, emission reductions, financial viability and risk. The software can be downloaded free of charge from Natural Resources Canada www. A completed RETScreen must be provided in .xls or .ret format (a photocopy, pdf or faxed copy is not acceptable).
- Proposals for projects that include key partners (such as provincial/territorial governments, Aboriginal governments, educational institutions, professional or

Texas Design Standard Compliance Forms

Following adopted Rule §19.34, before beginning construction of a new state building or major renovation project, a state agency or an institution of higher education shall submit to SECO a copy of the certification by the design architect or engineer that verifies to the agency or institution that the construction or renovation complies with the standards that are established under this rule, including engineering documentation.

Routine maintenance and operational change out of material and equipment, where no engineering or architectural design assignment is necessary, are exempt of the submission of the compliance certification.

Please mail the completed compliance form including the verification documentation to: State Energy Conservation Office 111 E. 17th Street Room 1114 Austin Texas 78701, Attention: Felix A. Lopez, P.E., Senior Engineer.

Texas Design Standard Compliance Form for Nonresidential Buildings

Texas Design Standard Compliance Form for Residential Buildings

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SB 982: Energy Conservation in State Buildings

On June 16, 2005, the Texas Legislature passed SB 982, which changed the processes and design standards involved in the approval of construction plans for certain state buildings, such as certification and project analysis. The bill requires design architects or engineers of new state buildings to certify that the construction or renovation complies with the alternative energy and energy-efficient architectural and engineering design evaluation requirements before they begin the construction or renovation.

SB 982 mandates that the Texas Comptroller's State Energy Conservation Office (SECO), or its successor, must approve any methodology or electronic software used by the commission or governing body, or an entity contracting with the commission or governing body, to make a comparison or determine feasibility under this subsection. In compliance with this mandate, SECO has reviewed and selected two software packages that will allow agencies to meet this legislation.

SECO has reviewed and selected these two software packages that **come free of charge** that will allow agencies to meet this legislation.

1. FRESA Software
   FRESA performs a general, Level 1 screening and a more specific, Level 2 screening for building- and facility-scale applications. Building-scale applications are small in scale; FRESA currently screens for photovoltaics (PV), solar hot water heating, and wind energy at the building-scale. Facility-scale applications are technologies that can meet the energy needs of an entire facility; FRESA currently screens for photovoltaics (PV) and wind energy at the facility-scale. Note that if your facility is only made up of one building, then your facility-scale inputs will be the same as your building-scale inputs.

2. RETScreen International Clean Energy Project Analysis Software
   RETScreen Software is an innovative and unique energy awareness, decision support and capacity building tool, has been developed to address this important deployment barrier. The core of the tool consists of a standardized and integrated project analysis software which can be used world-wide to evaluate the energy production, life-cycle costs and greenhouse gas emission reductions for various types of proposed energy efficient and renewable energy technologies compared to conventional energy projects.

   In addition to the software, the tool includes product, cost and international weather databases; an online manual; a case study based college/university-level training course and electronic textbook; and an Internet-based Marketplace. All of these are available free, in both English and French, at this Website. In addition, the recently released RETScreen Cogeneration Heat & Power (CHP) Project Analysis Model is also available in 19 more languages, together with several modules of the training course. For those with limited or no Internet access, all the materials are also available on CD-ROM. For additional information, see this RETScreen Software flyer.

Residential and Commercial Energy Codes

Toronto Solar Neighbourhoods Initiative
Input Data for RETScreen Simulation

All RETScreen analyses provided to Solar Neighbourhoods should be carried out using RETScreen **Version 4**, *and should use the following basic parameters:*

RETScreen Input Line	To use for Product Participation Application "System Performance" Section	To use for modelling of projects eligible under the TSNI
Start Screen		
Facility Type:	Residential	Residential
Project type:	Heating	Heating
Technology:	Solar Water Heater	Solar Water Heater
Analysis Type:	Method 1	Method 1
Heating Value Reference:	High	High
Climate Data Location:	Toronto	Toronto
Energy Model Screen: Heating Project		
Application:	Hot Water	Hot Water
Load Characteristics		
Load Type	House	House
Daily hot water use:	Run 3 separate RETScreen simulations using 150, 225, 300 litres/day	Use estimate from Hot Water Assessment portion of "Solar Hot Water Site Assessment Form" completed by the ecoENERGY assessor – there will be 2 values given (a base and

National Grid Solar Thermal Program

- **Commercial:**
- Solar Thermal - $3/therm first year savings
- LIMIT 50% project cost or $100,000
- Economic Redevelopment funds available for projects with high Community benefits up to $8 per therm
- RETScreen analysis is required
- Step #1 - energy audit
- 1-800-843-3636

nationalgrid

RETScreen Clean Energy Policy Toolkit

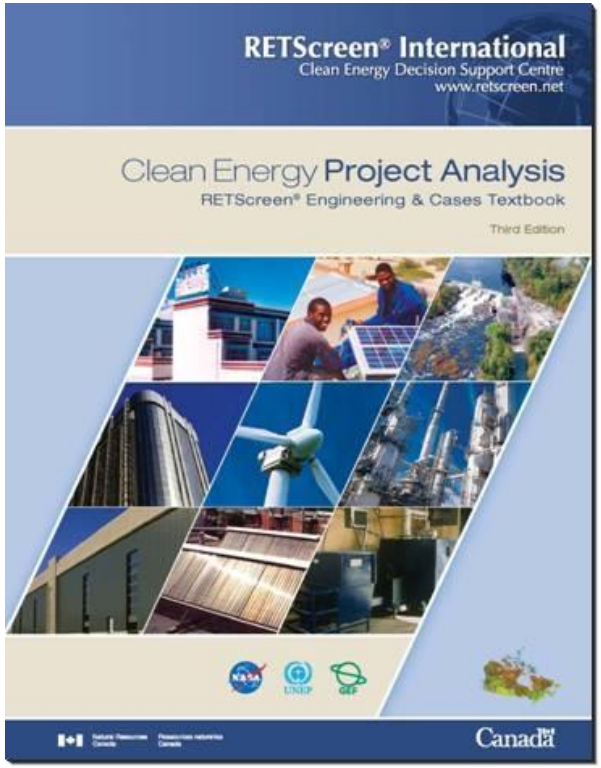
- Developed by RETScreen International
- Financially supported by a grant from the Renewable Energy and Energy Efficiency Partnership (REEEP)
- Includes Case Studies/Templates, e-Textbook Chapter, Training Slides, and Sample Documents
- Available on the RETScreen Website and within the RETScreen User Manual

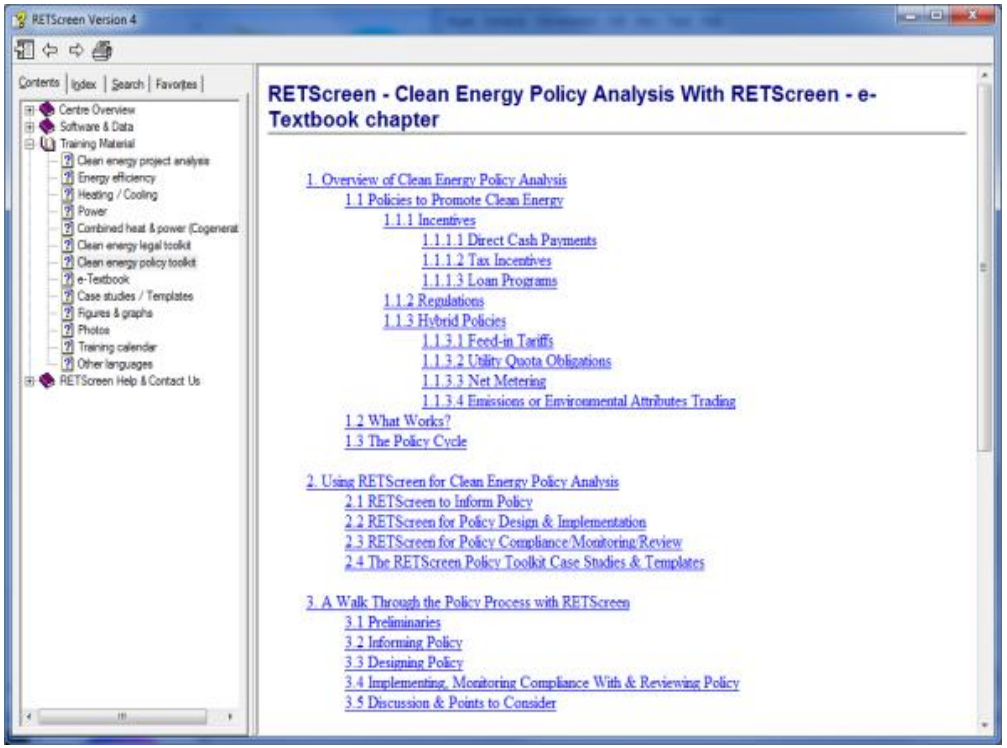
Case Studies & Templates

- Power – Photovoltaic – Feed-in Tariff – Policy / Canada
- Power – Wind – GHG Reduction Income – Policy / China
- Heating – Solar Water Heater – Capital Cost Incentive – Policy / USA
- User-defined – Tax and Finance Measures – Policy / Canada

+ many more!

Presentation Slides & e-Textbook Chapter



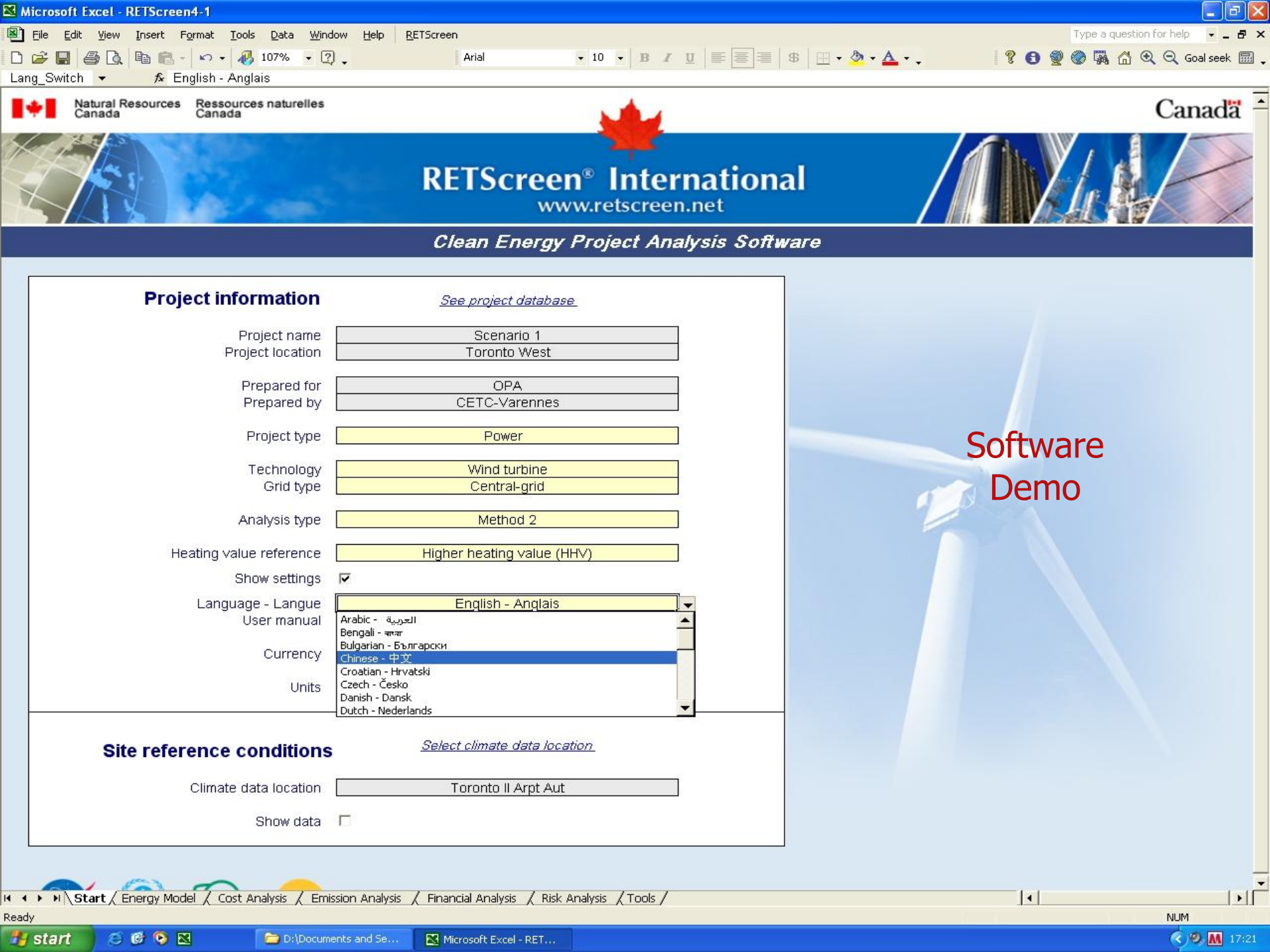


See e-Textbook

Clean Energy Project Analysis:
RETScreen® Engineering and Cases

Clean Energy Policy Analysis with RETScreen

CanmetENERGY
Leadership in ecoInnovation


Microsoft Excel - RETScreen4-1
File Edit View Insert Format Tools Data Window Help RETScreen
Lang_Switch
English - Anglais
Natural Resources Canada
Ressources naturelles Canada
Canada
RETScreen® International
www.retscreen.net
Clean Energy Project Analysis Software
Project information
See project database
Project name
Project location
Scenario 1
Toronto West
Prepared for
Prepared by
OPA
CETC-Varennes
Project type
Power
Technology
Grid type
Wind turbine
Central-grid
Analysis type
Method 2
Heating value reference
Higher heating value (HHV)
Show settings
Language - Langue
User manual
Currency
Units
English - Anglais
Arabic - العربية
Bengali - বাংলা
Bulgarian - Български
Chinese - 中文
Croatian - Hrvatski
Czech - Česko
Danish - Dansk
Dutch - Nederlands
Site reference conditions
Select climate data location
Climate data location
Toronto II Arpt Aut
Show data
Software Demo
Start
Energy Model
Cost Analysis
Emission Analysis
Financial Analysis
Risk Analysis
Tools
Ready
NUM
start
D:\Documents and Se...
Microsoft Excel - RET...
17:21