



GEF-UNEP ENERGY FOR SUSTAINABLE DEVELOPMENT IN CARIBBEAN  
BUILDINGS (ESD) PROJECT

# *Building Performance Assessment*

Proposed methodology and consultation on  
validation procedures, streamlining and assuring  
project Impact

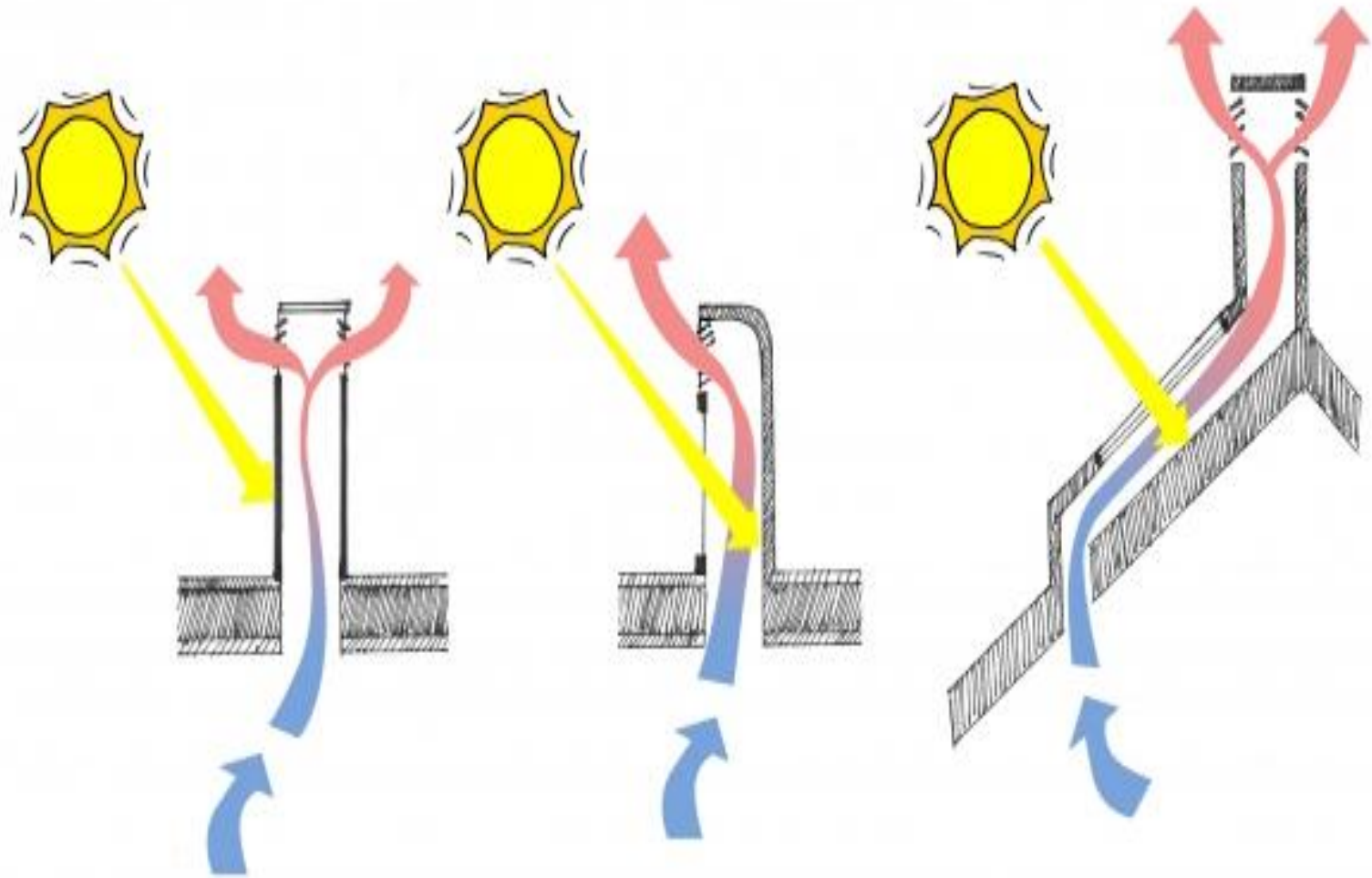
*Introductory Session #8: **21 Aug 2014***

*Presenter: **Tom Hamlin, UN DESA***

# AGENDA

11:45 AM EDT	Solar Chimney Ventilation
	Local Supermarket
	RETScreen Solar
1:00 PM EDT	Roll – out options
	Next Steps

# Solar Chimney



# Analytical modelling

- <http://www.diva-portal.org/smash/get/diva2:445187/FULLTEXT01.pdf>
- [http://www.bwk.tue.nl/bps/hensen/publications/10\\_icebo\\_gontikaki.pdf](http://www.bwk.tue.nl/bps/hensen/publications/10_icebo_gontikaki.pdf)
- [http://intraweb.stockton.edu/eyos/energy\\_studies/content/docs/final\\_papers/4b-7.pdf](http://intraweb.stockton.edu/eyos/energy_studies/content/docs/final_papers/4b-7.pdf)
- [http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=14&ved=0CGoQFjAN&url=http%3A%2F%2Fwww.mdpi.com%2F1996-1073%2F6%2F1%2F145%2Fpdf&ei=Fg32U6T7NJDnoATi9oDYCg&usg=AFQjCNHDe-vTJcuNxsiVjvMG2\\_n0f0rzXw&bvm=bv.73373277,bs.1,d.cGU](http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=14&ved=0CGoQFjAN&url=http%3A%2F%2Fwww.mdpi.com%2F1996-1073%2F6%2F1%2F145%2Fpdf&ei=Fg32U6T7NJDnoATi9oDYCg&usg=AFQjCNHDe-vTJcuNxsiVjvMG2_n0f0rzXw&bvm=bv.73373277,bs.1,d.cGU)

# Demonstration Types

- **Gov't Office buildings**
  - Greaham Louisy St. Lucia
  - National Archives St. Vincent
  - MESTPU Belize
- **Hospital**
  - KHMH Belize
- **Hotels**
  - Typical Large Hotel Caribbean
- **Supermarket**
  - Local Belize
- **Restaurants**
  - Jerk Chicken Palace Caribbean
- **Solar PV and Water Heating**

# Local Supermarket (Belize)

- Chose a Retail Building defaults
- Supermarket has more plug loads due to refrigeration – needs to be verified then the model could get closer to the actual consumption

# Next Steps

- Do runs for all demo buildings and submit for review
- Standard ESD Defaults
- Training roll-out options