

Evaluating Renewables for Your Operations

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Minnesota's Better Energy Future

Renewable Energy Vision

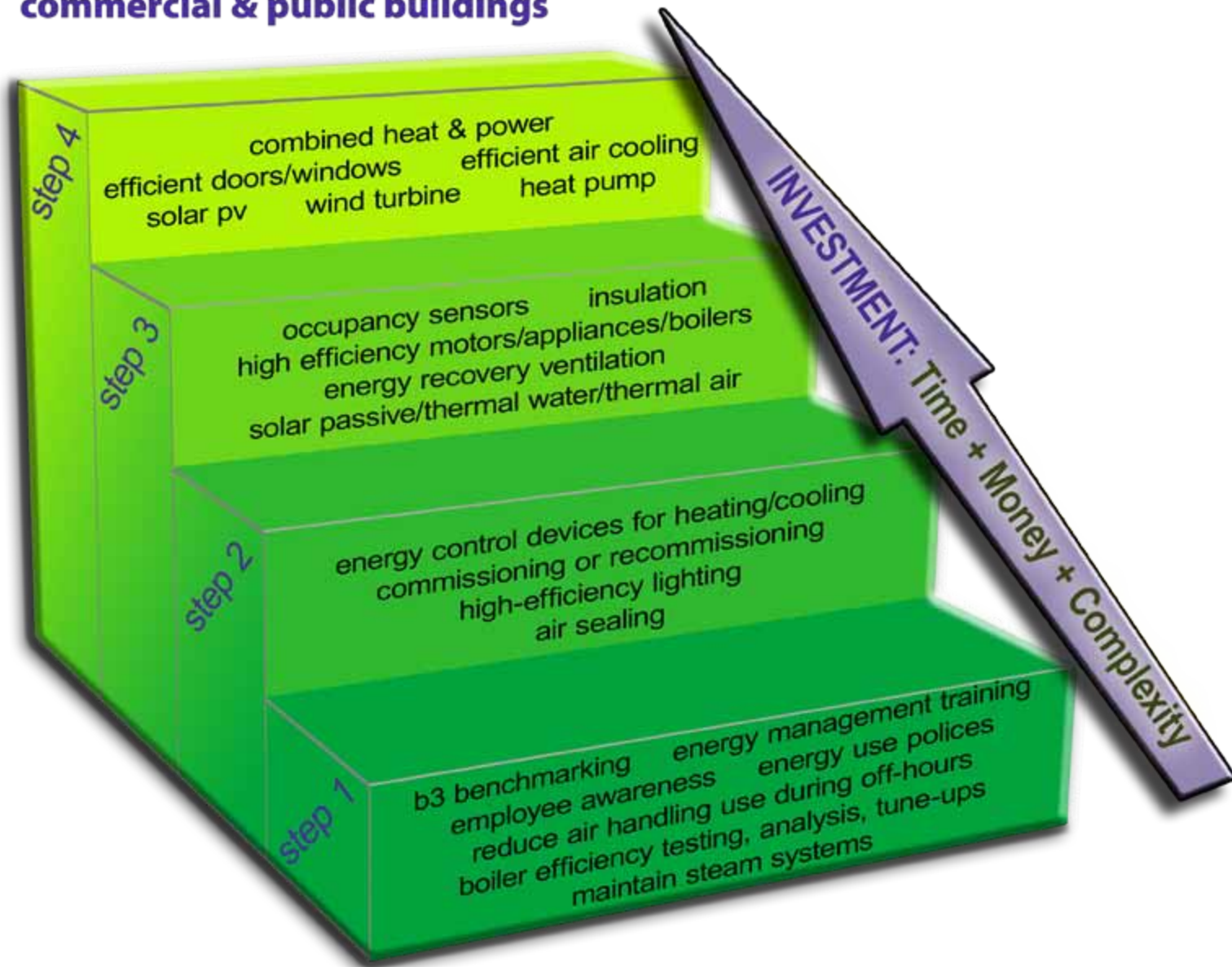


**25% of all the
electricity we
generate will come
from renewable
sources by 2025!**

**WIND, SOLAR, HYDROELECTRIC, HYDROGEN, BIOMASS,
BIOFUELS**

The Steps to Energy Efficiency

commercial & public buildings



Preparing for Renewables

**Conservation—behavioral:
Create your own incentives
for building occupants to
save energy**

- **Fix-it tickets**
- **Stickers**
- **Contests**





Preparing for Renewables

Energy Efficiency—use of technology to improve building performance

Your utility is your friend!

CONSERVATION IMPROVEMENT PROGRAM (CIP)

See Database of State Incentives for Renewables & Efficiency for incentives:

www.dsireusa.org



Preparing for Renewables

Energy Efficiency—use of technology to improve building performance

Coming programs:

- Micro-Energy Loan Program**
- Public Building Enhanced Energy Efficiency program (PBEEEP)**

**Sign circulating clip board to stay apprised,
Or call Energy Information at 651-296-5175**



Preparing for Renewables

Renewable energy—use of technology to generate energy sustainably

The rate of return on investment for renewables depends on:

- Site
- Utility access
- Available incentives

Preparing for Renewables

Solar Technologies



- Passive solar design
- Solar preheating of intake air
- Solar pool heating
- Solar hot water
- Solar electricity



Conserval Systems Inc

Preparing for Renewables

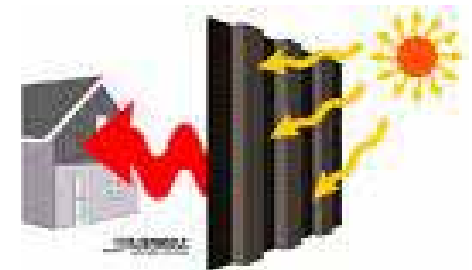
Solar Siting

Consider your site to help determine what renewable resource is right for you



For solar, look for:

- South-facing site
- Shade-free site

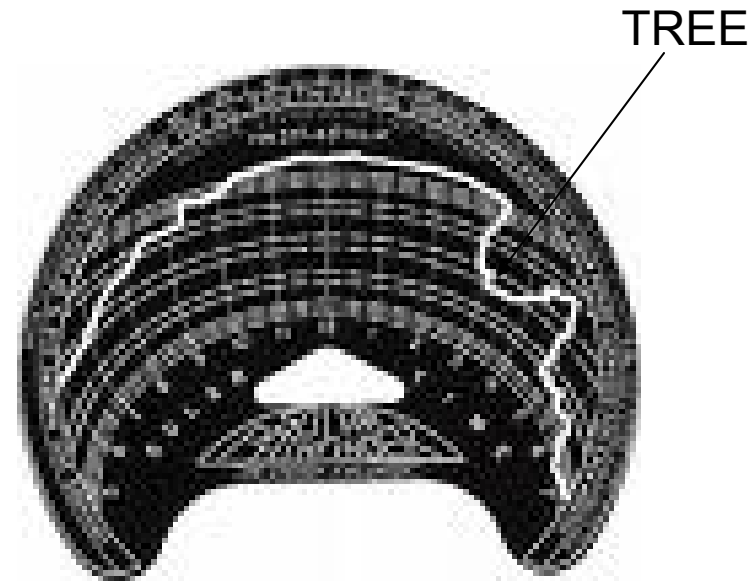
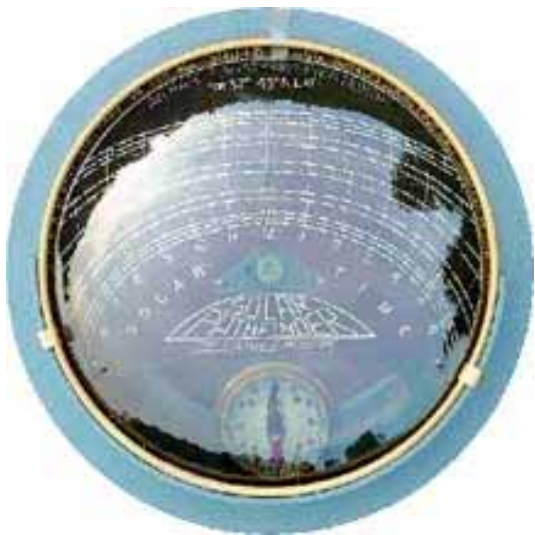


Preparing for Renewables

Solar Siting

Complete a ***solar site assessment***.

Available for a fee from your local solar contractor





SOLAR AMERICA CITIES MINNEAPOLIS SAINT PAUL

The cities of Minneapolis and Saint Paul are committed to five priorities:

- 1) Municipal policies and permitting**
- 2) Outreach and education**
- 3) Workforce development**
- 4) Integrate solar into city infrastructure**
- 5) Financing options**



SOLAR AMERICA CITIES MINNEAPOLIS SAINT PAUL

Solar Leasing:

Especially for non-tax paying entities.

- Allows cities to take advantage of federal tax incentives (indirectly)
- There are challenges!



Clean Renewable Energy Bonds (CREBS)

**IRS administers competitive grant process
(\$800 Million)**

- **Finance public sector renewable energy projects**
- **Pay back only the principal of the bond**
- **Public power providers, governmental bodies, and electric coops to receive equal shares**
- See www.dsireusa.org



Minnesota's Better Energy Future

Thank you!

Questions