

UNFC-based Resource Classification for Renewable Energies

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All energy resources are estimated based on a source coupled with technology and processing to create products





The UNFC is a "project-based" classification





The UNFC principles apply also to Renewable Energy

- **Projects** providing renewable energies may differ in terms of:
 - **Feasibility** (technical maturity)
 - Viability (commercial, social & environmental maturity)
- Energy resource estimates also carry some levels of **uncertainty**





The UNFC will help differentiate Renewable Energy Resources

- Resource estimates will be differentiated in a consistent way related to their projects
- Differentiation enables optimal energy choices and facilitates project definition and selection

This Classification will have 3 main applications and benefits:

- 1. Assist internal planning and management of energies and projects
- 2. Help investors evaluate the potential value and risks of investments
- 3. Allow external reporting to regulators, stock exchanges or governments



The journey to a UNFC-based, global Renewable Energy Classification

- In 2012, UNECE called upon **EGRC** to "develop ideas on how UNFC could apply to and integrate renewable energy by December 2013"
- In mid-2013, EGRC established a Work Group to develop Specifications for application of UNFC to Renewable Energy Resources
- The Work Group developed Generic Renewable Specifications approved after public consultation and issued in 2016
- **5 Sub-Groups** (Geothermal, Bioenergy, Solar, Wind and Hydro) are now developing **Commodity-specific Specifications**
- **Geothermal** was published in 2016. **Bioenergy** will be in 2017. **Solar** is making good progress. **Wind and Hydro** have been initiated.
- By end 2020, a UNFC-based, a **global Renewable Energy Classification** will be available to all energy stakeholders for adoption and use

Renewable Energy Resource Classification Project





Conclusions

- The development of a UNFC-based classification for Renewable Energies is making good progress
- By end 2020, a complete suite of Specifications will be available supported by case studies and guidelines
- Three key benefits are expected:
 - 1. Assist internal planning and management of energies and projects
 - 2. Help investors evaluate the potential value and risks of investments
 - 3. Allow external reporting to regulators, stock exchanges or governments
- Success hinges on your support and engagement for adoption and usage









