



REMWG Roadmap Updates

for MVS Meeting May 2022

Songzhe Zhu

05/18/2022

Approved Documents

- Clarification on proper use of REPC models
- Summary of all 2nd generation generic renewable energy system dynamic models
- White paper on modeling hybrid power plant
- White paper on converting REEC models
- Proposal for new features for the renewable energy system generic models
- Solar PV plant modeling and validation guideline

Approved Dynamic Models

Approved

- REGC_B, REEC_D, REPC_C, WGO, WTGP_B, WTGT_B

To be approved

- IBFFR

Under testing

- REGC_C

Hybrid Power Plant Power Flow Model

- Implemented in all major software platforms
- Already released or expected to release soon

Work in Progress

- REPC_C model
- Generic models for grid-forming inverters
 - Model specification is being developed
 - Simple structure that can be expanded later
 - Models for different control strategies
 - Models are needed before more GFM inverters are installed in the bulk system
 - Spec will be approved after prototype test on both small test system and WECC full-loop system
- Collaborate with ATSMWG to develop offshore wind modeling guide

Planned Work

- EMT model for area control interaction study and sub-synchronous oscillation study
- Collaboration with other working groups and industry forum