Veda online

Core Veda2.0 functionality accessible via Internet browsers

https://vedaonline.cloud/
Benefits of VO

• For individual users
  • No software setup/updates needed
  • Enforces version control discipline via GitHub
  • Model synchronization and runs on state-of-the-art servers
  • Availability of model input/output no longer dependent on local machines
  • Far superior data visualization in Reports, Results, and Browse

• For teams
  • Provide unobtrusive access to input/output to team members

• POSSIBLE TO **DEPLOY** MODELS
  • Create *model users*
Supported functionality

• Upload Veda model folders (via GitHub)
• Synchronize
• Browse input data
  • Veda Browse: Multi-select dimensions in a pivot grid
  • Veda Items view: sets, topology and parameters for individual items
• Define and run cases
  • Solved on KanORS servers or the GAMS engine
• Results
• **Reports**
  • *Visualization features are much more powerful than those in Veda2.0*
Use cases

• Free version for pedagogical use
  • With support for hardware and GAMS licenses

• Controlled deployment of models
  • Model owners will be able to control the visibility of their models, by user.
  • Give open access only to results.
  • Control over the input/output being downloadable.

• Host open models
  • Models will already be fully functional under VO. Users will be able to browse input/output and look at results.
  • More engaged users can create their own repos on GitHub, make incremental changes, and run scenarios.

• Bulk runs
  • Large number of scenarios could be run in the cloud – in parallel.
Simple Veda models can be managed without Veda2.0
Model development under Veda2.0 and deployment under Veda online

Incremental changes can be managed via Veda online – without Veda2.0
Collaborative development and deployment

GitHub

VEDA online

Veda Model Folder

Veda 2.0

Veda Model Folder

Veda 2.0

Veda Model Folder

Veda 2.0
Login screen

Username: amitkanudia
Password: *****

Login

Forgot Password?

Don't have an account? Register
Anyone can create an account on Veda online
The home page – not logged in

Input and output of public models can be browsed without logging in

<table>
<thead>
<tr>
<th>Select Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>amritkumdiea</td>
</tr>
</tbody>
</table>
The home page – after logging in

- User “kanorsveda” should be granted access in order to use a private Github repo
- Visibility of private models is under user control
Navigator - to refresh from Github and Synchronize models
Item detail view
Browse input data
Run manager

Model owners can launch runs; solved on GAMS Engine (cloud)

<table>
<thead>
<tr>
<th>Case</th>
<th>Description</th>
<th>User Name</th>
<th>Source Times</th>
<th>Scenario Group</th>
<th>Region Group</th>
<th>Parametric Group</th>
<th>Properties Group</th>
<th>Periods Defined</th>
<th>Ending Status</th>
<th>GOX Ref.</th>
<th>Updated On</th>
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<tbody>
<tr>
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<td>zero carbon high CCS</td>
<td>amitiananudia</td>
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<td>29-07-21 12:32</td>
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</tbody>
</table>
Results

Electricity generation (PJ) in NetZero scenario
Utilization factors by country under BAU scenario