Supporting energy scenario development process using GitHub and modern web technologies

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GitHub

• Popular platform for collaborative software development
• Built around GIT version control system
• Includes issue tracking
• Publishing to a CDN
• Automation
GitHub facilitated scenario development

Initial description → Modelling work → Scenario generation → Results repository

Discussion → Issue tracker → Web Dashboard
Web dashboards

- Hosted at [https://epmg.netlify.app](https://epmg.netlify.app)
- Rely on:
  - A generic web part
  - Study-specific results
  - Study-specific settings
Visualisation Workflow

- Veda tables
- csv batch export
- Processing / Aggregation
- GitHub Repository
- Deployment to a CDN
Use Cases (Scenario Development)

- STUDENTS’ PROJECTS
- STAKEHOLDER ENGAGEMENT
- STANDALONE ANALYSES
Web Dashboards Considerations

Pros
• Structured way to explore scenario results
• Results available anytime
• Easy to share with anyone
• Responsive
• Modern technology
• Open source
• Low-cost

Cons
• Requires specialised skills to develop
Outlook

• Delegate processing/aggregation to GitHub
• Archive *.vd files
• Include results as frictionless data package (e.g. for publication on Zenodo)
• Make more GitHub functionality accessible
• Better integration with SoMe
Thank you!
😊
Questions?