Caribbean Energy Knowledge Hub (CEKH)

Overview on Information and Knowledge Portals



Platforms: What's Available?

- We believe we only scratched the surface
- Lots of good information available, but most is well hidden or unknown
 - Maps on potentials (solar, wind)
 - Country-comparisons and scorecards on select topics
 - News aggregation and report publication
 - Financing instruments
 - Map of power plants
 - History data on infrastructure investment, tariffs, electricity generation and use, socio-economic data
 - Events, workshops
 - Policy information
 - PLUS: some community features for interaction



Platforms: Considerations and Caveats

- One-purpose v. multi-purpose platforms (fulfil one or more information needs)
- Not everything for all CARICOM countries
- Historic information not always complete for all years (but can still very useful!)
- Language mostly English, some also have Spanish as second language (only very few are primarily in Spanish)
- Many (regional) portals are run outside of Caribbean
- Not many have a specific focus on Caribbean (but included as a subset)



Platforms: Considerations and Caveats

- Quality is very variable between platforms
- Data/Information update schedule unknown
- Lot of available information is outdated and can only be used partially (depending on use case)
- Machine-readable data sets only available on a few portals
- Licensing: not all clearly state what the license of the data is:
 - So, can the data that is published online even be used?
 - If so, what am I allowed to do with the data, and how do I give credit?



Platforms: A Quick Check..



















ENERGYDATA.INFO



































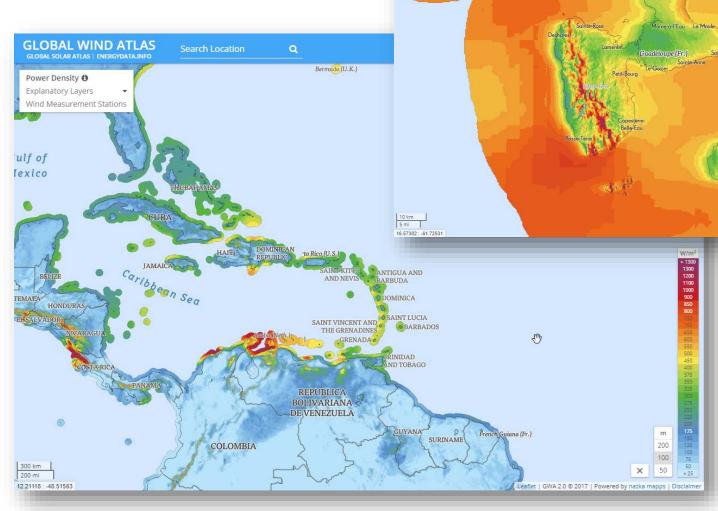
Requirements to Platforms: Any Matches?

- Tried to match knowledge and information needs to platforms
- Based on James' categorization
- First assessment this can change with time and increased understanding
- Created a "living document" that everyone can add to

Some examples in the next few slides



Energy Planning: Global Wind Atlas



GLOBAL WIND ATLAS GLOBAL SOLAR ATLAS | ENERGYDATA.INFO

Wind Speed ①
Orography
Roughness
Ruggedness Index
Wind Measurement Station

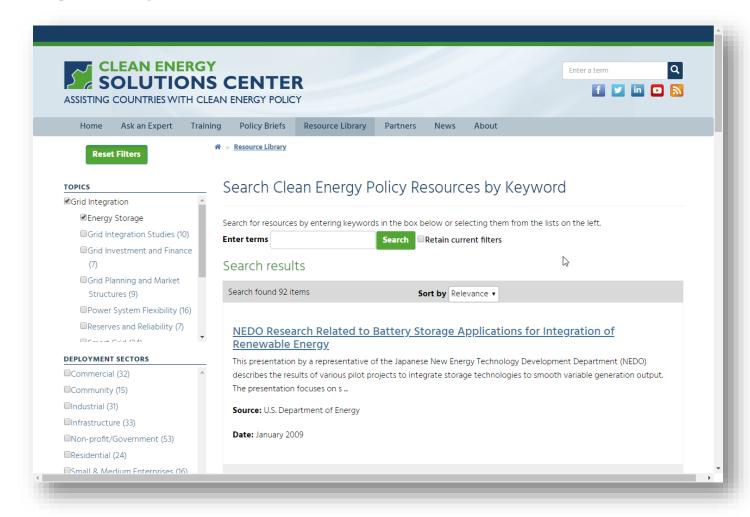


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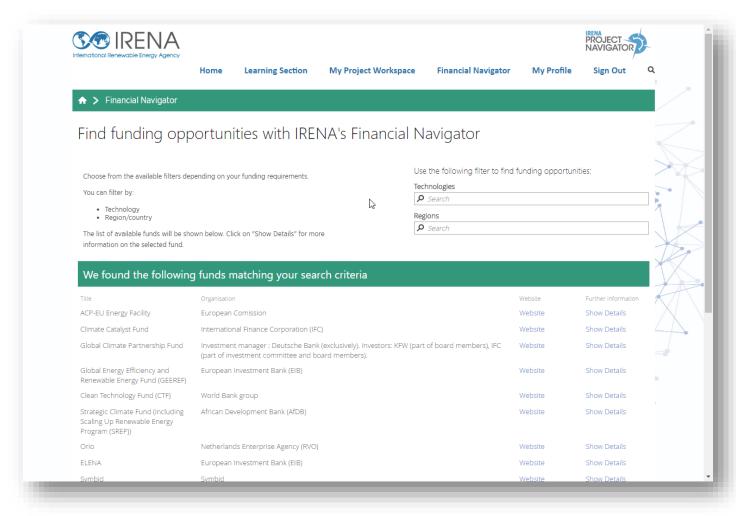
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Support Specific Decisions on Current and Upcoming Topics: CESC



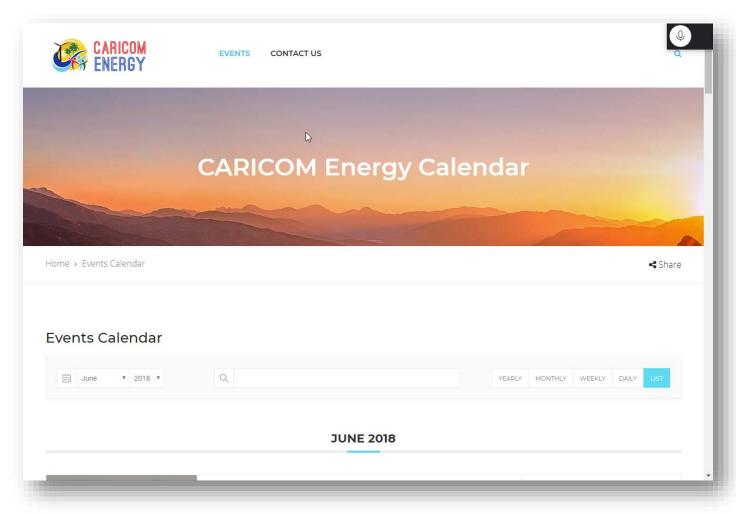


Financing Information: IRENA Project Navigator





Capacity Building and Events: CARICOM Energy Events Page





What Did We Miss?

- Help us improve our overview here on Google Sheets:
 - http://tiny.cc/caricomenergyportals
 - (for those who like longer links: <u>https://docs.google.com/spreadsheets/d/1leoDKF_dNwB9TwbHBUpso3_Rh4</u> DICyM18shkiGL4n5g/edit?usp=sharing)

- Take a few minutes to review and check it out!
 - Which additional platforms 'solve' your knowledge needs?
 - Which platforms could add value to the Knowledge Hub?
 - Comment if you think there are errors (Insert -> Comment)



Developing the Hub: a New Platform?

- Lots of Information is already out there
 - Use technology to re-use data?
 - Linking data v. copying data
 - Create new insights on existing data, based on user needs
- Lots of non-technical unknowns when building a new platform
 - Funding
 - Governance
 - Functional, non-functional, organizational requirements
- Setting Up a Successful [..] Platform: A 9-Point Checklist [Video]:
 - http://tiny.cc/h0invy



10% of a Platform is Technology & Coding

Technology:

- Set up servers, install software, set parameters and options
- Programming of specifications

• Other 90%:

- Stakeholder network, engagement with others, "Helpdesk" on topical issues
- Content creation and curation
- Translation, annotation, taxonomy development (content definition)
- Project management & Human Resources
- Verification & testing, documentation
- Outreach, branding, communication
- Specification of integration with other systems (especially when linking data!)



Linked (Open) Data

make your stuff available on the web (whatever format)

make it available as structured data (e.g. excel instead of image scan of a table)

non-proprietary format (e.g. csv instead of excel)

use URLs to identify things, so that people can point at your stuff

link your data to other people's data to provide context

5-Star-Model by Sir Tim Berners Lee (see: https://www.w3.org/DesignIssues/LinkedData.html)

- Put information in context and thereby create knowledge
- Less replication/duplication (offering same datasets in different places) and keep data maintenance cost low
- Encouragement to re-use existing datasets
- More innovation because datasets can be put in a new context and lead to interesting applications -> create new knowledge!
- If set up right, can also link content from different languages
 - Simple example: link data for "Dominican Republic" and "República Dominicana"



Linking Data v Copying Data

Linking Data

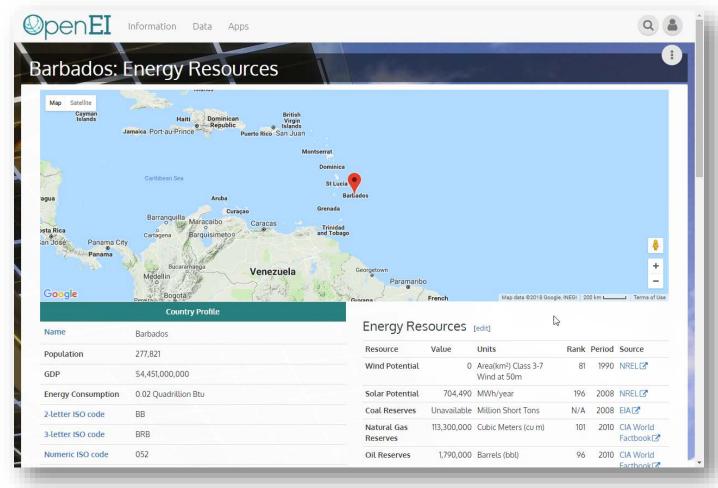
- Last updates included automatically
- Efforts to define and include data in platform are initially higher
- 'Remote' data needs to be accessible on-demand
- Data is stored on 'remote' server

Copying Data

- Updates need to be downloaded and imported
- No initial integration efforts necessary, but 'data cleaning' and normalization necessary
- Remote data can be inaccessible, but is still available locally
- Data stored on local server



Linked Data Example: OpenEl







Linking Information: Climate Tagger

- Improve user experience by
 - Increasing consistency through standardized vocabularies
 - Bridging gaps between different portals, organizations, thematic sectors, languages
 - Linking content based on 'tags'
- Climate Tagger & Renewables Tagger
 - Scans, sorts, categorizes and enriches data and information ("tagging")
 - Improves efficiency and performance of knowledge management systems

Tags by climatetagger:

clean energies, energy, energy efficiency, global climate, projects, renewable energies, rural electrification, solar, specific financing mechanisms, United Nations Industrial Development Organization, waste



Thank you!

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