

Energy for isolated scientific stations

The present report figures out how can cooperation serve every Research Infrastructure on one of their common technical issue: "**Energy for isolated scientific stations**". It has been developed within the ENVRIplus project.

Structure of the document:

This report is composed of five stand-alone chapters:

Chapter A: **A common knowledge on energy supplies for isolated stations**

This chapter gives a quick overview of minimal useful knowledge on energy systems for isolated sites.

Chapter B: **A catalog of operational isolated stations**

Thanks to the ENVRI+ RIs community within oceanography, biology, atmosphere, geology fields, this chapter gives examples of operational stations, their energy and data transmission. Contacts are provided for more required details.

Chapter C: **Energy production systems evaluations**

Regarding RIs needs and following the ENVRI+ survey, evaluations of the most used power systems are presented.

Chapter D: **Energy storage systems evaluations**

Regarding RIs needs and following the ENVRI+ survey, evaluations of the most used power storage systems (lead acid batteries) have been made.

Chapter E: **Technical summary**

Finally, all previous information has been summarized in technical data sheets for the direct on-site use. The data sheets are gathered in chapter E: **Technical summary**, ready to be printed.



The report can be downloaded here