

Amsterdam, September 26, 2019

**Hydro66 have delivered OCP colocation data center services to Nexedi, operator of Rapid.Space cloud and leading publisher of Enterprise open source software in Europe. This new IaaS platform provides market leading price and performance public cloud servers. It is based on Sesame recertified servers provided by ITRenew and based on the Open Compute Project (OCP) standard. Rapid.Space at Hydro66 reduces CO2 emissions by 87% compared to average European cloud providers.**

Headquartered in France, Nexedi is an innovative Enterprise solution provider focused on delivering open source software and hardware to solve complex business applications issues (such as ERP, CRM and cloud operation) in a very short time and with maximum flexibility. Customers include Airbus, Kyorin, Woelfel, PSA, Teralab and SANEF amongst many others.

Jean-Paul Smets, CEO Nexedi, stated, "We have been strong advocates of OCP for several years now and we are delighted to begin working with a new member of the community. Hydro66 are a perfect partner for us as they reflect our core values of delivering environmentally friendly solutions at a fraction of the "Big 5" market price. Further, our customers see a lot of value in a cloud solution deployed in the EU with an EU partner. Delivering our Rapid.Space racks pre-built by ITRenew to Hydro66 and having them available to our customers in a matter of minutes is exactly the benefit we expected from an OCP colocation facility."

The cloud Infrastructure-as-a-Service (IaaS) market is accelerating at 27% year on year and poised to drive the US\$45.6 billion market toward US\$150.7 billion by 2023, according to independent research published by Frost & Sullivan.

Ali Fenn, Chief Innovation Officer at ITRenew, explains "With progress happening in the shift to renewables, as much as 75% of the CO2e impact of data center compute equipment is tied to the manufacturing of servers, rather than their usage. Circular economy through recertification more than doubles the life of OCP hardware used by very large companies, and can reduce net CO2e of data center equipment by 25% while also delivering significant TCO gains."

Patrick Smidts, Commercial Director of Benelux for Hydro66 commented, "With a world record PUE of 1.07 and power entirely provided by hydroelectric facilities, Hydro66 cuts by more than 99% the average CO2 footprint of cloud. Overall, by colocating Rapid.Space at Hydro66, Rapid.Space slashes CO2 emissions by up to 87% with a public price 5 to 10 times lower than competition."

## References

- [The screening life cycle assessment of data centre](#) by Beth Whitehead (PDF)
- [Measuring Environmental Impact Using Lifecycle Assessment](#) by Beth Whitehead (PDF)

## Permanent URL

- <https://www.nexedi.com/NXD-Press.Release.Hydro66.ITRenew.OCP.2019>

## About Nexedi

Nexedi is the largest publisher of Open Source / Free Software in Europe with [15 million lines of original source code](#). Nexedi enterprise software portfolio covers business applications (ERP5), edge cloud computing (SlapOS), big data (Wendelin), distributed transactional NoSQL database (NEO), HTML5 productivity (OfficeJS), progressive offline web applications (RenderJS, JIO), software defined resilient networking (re6st), devops (Webrunner) and multimedia conversion (cloudooo). With presence in Europe, Asia and Americas, [Nexedi addresses a wide range of industries](#) ranging from aerospace, automotive, banking, telecommunication, healthcare to government sectors. The Free Software nature of Nexedi solutions eliminates licensing costs, provides full freedom to update or customise the system as business requirements change and allows corporations to capitalise on their know how without vendor lock-in. Nexedi provides 24/7 support to corporations and governments wishing to migrate their mission critical applications to Free Software solutions.

Rapid.Space is a hosting provider operated by Nexedi. since 2018. Rapid.Space offers high performance, dedicated, clusterable servers at the lowest possible cost to IT professionals looking for low latency, high data volume and ethical cloud solution.

To learn more, visit [www.nexedi.com](http://www.nexedi.com) and follow Nexedi on [LinkedIn](#) and Twitter [@nexedi](#).

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# About Hydro66

Hydro66 owns and operates an award-winning colocation data center in Sweden specializing in High Performance Computing ("HPC") hosting. The Company hosts third party IT infrastructure, utilizing 100% green power, at amongst the EU's lowest power prices and within an ISO27001 accredited facility.

Hydro66 is uniquely positioned to capitalize on opportunities in Open Compute Project colocation as well as the traditional Enterprise colocation data center market. The Company provides truly green power at a leading price, purpose-built space and cooling, telecoms, IT support services and 24/7 physical security in their facility in Boden, Sweden.

To learn more, visit [www.hydro66.com](http://www.hydro66.com)

# About ITRenew

ITRenew is the world's leading provider of circular data center solutions to cloud service providers. As a global disruptor in the data center and tech industries, ITRenew's mission is to transform the global IT industry by operationalizing circular data centers to maximize financial and environmental sustainability for all infrastructure buyers. ITRenew's pursuit to revolutionize how IT hardware is managed and deployed around the world is evident through its [Sesame](#) line of compute and storage solutions, which brings hyperscale technology to infrastructure buyers everywhere with a transformative reduction in TCO. ITRenew is headquartered in the heart of Silicon Valley.

To learn more, visit [www.itrenew.com](http://www.itrenew.com) and follow ITRenew on [LinkedIn](#) and Twitter [@ITRenewinc](#).

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# Life Cycle Assessment

Based on [Environmental Impact Using Lifecycle Assessment](#) by Beth Whitehead, the ratio of CO2 emissions due to operation of the data centre can be four times higher than embodied emissions in the case of coal based energy (Case 1) or half of energy emissions in countries such as Sweden with a high shared of renewable energies (Case 2).

CO2 emission savings due to recertification range from 8% to 25% depending on the case. They are a consequence of an industrial process which doubles the lifetime of servers.

CO2 emission savings due to renewable energies from 55% to 87% depending on the case.

Rapid.Space Life Cycle Assessment

	Case 1 : Coal	Case 2 : Sweden
Operational CO2 emissions	80%	33%
Embodied CO2 emissions	20%	67%
CO2 savings through recertification	8%	25%
CO2 savings through renewable and 1.07 PUE	79%	32%
Total CO2 savings	87%	55%

# Hydro66 Assessment

[The EU average CO2 per kWh of generation is 295.8g](#). Germany is 440g. Hydro66 is 0.04g. This is 7395x saving in CO2.

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But now add PUE. EU Average is 1.7. Hydro66 is 1.07 therefore 90% difference.  $7395 \times 1.9 = 14050x$  saving in CO2 by hosting with Hydro66.

This means hosting a single 10 kW rack in Germany contributes over 66 tonnes of CO2 every year. This is the same emissions as flying in a passenger jet for over 300,000 km. Hosting with Hydro66 almost completely eliminates this source of

CO2 from your carbon footprint

In terms of difference, this is the same as [66 flights](#) Stockholm to Karachi (66,400 kg CO<sub>2</sub>) / compared to a single 40 km taxi to the airport (4 kg CO<sub>2</sub>).

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