

Cirebon 2 coal power plant Indonesia

Sectors: Coal Electric Power Generation

Active

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Contact:

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[Project website](#)

Sectors

Coal Electric Power Generation

Location



Status

Planning Design Agreement **Construction** Operation Closure Decommission

Website

<http://www.cirebonpower.co.id/>



This project has been identified as an [Equator Project](#)

The coal fired power plant Cirebon Unit 2, with a capacity of [1,000 megawatt](#), is a power plant project in the West Java region of Cirebon, Indonesia. The project is estimated to require an investment of USD two billion and is expected to be operational in 2020. The Cirebon project was also supposed to include a further 1,000 megawatt expansion, Cirebon 3, expected to cost a further USD 2.1 billion. However, as of June 2020 there had been [no progress](#) on Unit 3 since May 2016 by Marubeni and other potential sponsors, and the unit appears to be cancelled. The project is being developed by Cirebon Energi Prasarana (CEPR), a consortium [consisting of](#) Marubeni (35%), Indika Energy (25%), Samtan (20%), Korea Midland Power (10%) and Chubu Electric (10%). This consortium signed a 25-year power purchase agreement with the Indonesian state power utility PLN in October 2015.

The Marubeni-led consortium has awarded Black & Veatch, a US-based global engineering company, the engineering contract. Black & Veatch will oversee the scheduling, design, quality control of equipment supplied and construction of the second expansion. ING Bank and Latham & Watkins, an international law firm, are advising on the project.

Impact on human rights and communities

Lack of Appropriate Consultation and Transparent Procedure in EIA and land acquisition

The Construction of Cirebon Unit 1 started before any environmental impact assessment (EIA) was completed, and local communities have complained of lack of transparency during the land acquisition process for the plant site. There are accounts of local authorities and companies using intimidation to encourage local landowners to sell their land, and a similar situation is emerging in the process of EIA and the land acquisition for Cirebon Unit 2.

Health impacts of coal

Coal power plants are a significant source of air pollution, filling the air with toxic pollutants, including mercury, lead, arsenic, cadmium and tiny toxic particles that go deep into people's lungs. This pollution leads to an increased risk of lung cancer, stroke, heart diseases, and respiratory diseases. See the 2015 Greenpeace report '[The Human Cost of Coal Power](#)', based on a Harvard University study.

Harvard University has found that existing coal-fired power plants in Indonesia cause an estimated 6,500 premature deaths every year. Each large new power plant, like the Cirebon 2 Expansion (1000 MW capacity) is expected to result, on average, in the death of 600 Indonesians every year.

There have been anecdotal reports from local residents from the surrounding area of the Cirebon Unit 1 Plant of increased respiratory infections, which matches the government data showing there are more patients affected by acute upper respiratory tract infection in this area than other districts.

Impacts on local livelihoods

Since the construction and operation of Cirebon Unit 1 Plant in 2007, the local community has suffered heavily from ongoing adverse environmental impacts of the plant. The people residing at villages near the plant have traditionally relied on small-scale fishing, shellfish harvesting, salt making, production of terasi (shrimp paste) and farming for their livelihood. These livelihoods are all but gone for the local residents due to Cirebon's pollution, use of water resources and impacts on the natural environment.

According to testimonies from local communities, fish and shrimp catches decreased by more than half since the beginning of the project in 2007. The productivity of salt pans near the project site has also deteriorated since Cirebon Unit 1 began its operations, and as a result community representatives report that some 500 laborers in the affected communities have lost their livelihood. These impacts have been reported by the community organisation Rapel (Rakyat Penyelamat Lingkungan, or Environment Defender Community) Cirebon.

Impact on climate

The Cirebon coal plant expansion will run for 25 years, processing approximately [3.2 million tonnes](#) of coal per year. The expansion is totally out of line with the Paris Agreement, which requires coal to be phased out across the world by 2040. Nonetheless, Indonesia has become one of the world's [largest](#) coal exporters, and coal continues to provide more than half of the country's energy supply.

Climate Impacts

Indonesia is vulnerable to climate change, particularly extreme heat and sea-level rise. Indonesia has 80,000 kilometres of coastline and 17,500 islands, and much of the country's population lives at low elevations along these coastal areas. As global temperatures rise, [millions](#) of people could be exposed to permanent flooding. Changes in seasonal rainfall, coupled with saltwater intrusion into low-lying areas, may reduce the amount of available potable water. The production of rice, one of Indonesia's staple crops, depends on the wet season, which may be delayed by up to a month as the climate changes. Palm oil and coffee production may drop, too, as agricultural areas become unsuitable for growth.

Impact on nature and environment

Water pollution

Coal is one of the most water-intensive methods of generating electricity since it consumes and pollutes a huge amount of water during extraction, processing, and combustion at power plants. An incredible amount of water is used and contaminated during the entire lifecycle of coal: coal mines deplete groundwater and pollute rivers and lakes. Coal washing turns large amounts of freshwater into toxic wastewater. Coal power plants consume vast amounts of water for cooling and pollution controls and their coal ash ponds can contaminate surrounding water bodies.

Coal ash pollution

Burning pulverized coal in boilers to create steam for power generation produces a number of combustion residuals. One is bottom ash, which is removed from the bottom of coal furnaces. Another is fly ash, most of which is captured by filtration equipment before flue gases reach the chimneys of power plants. Other combustion residuals are emitted through the stack. Such coal ash is generally trucked in dry or sent through pipelines with water to a disposal facility. The former generates fugitive dust and the latter often leads to groundwater contamination as heavy materials and other toxic chemicals flow into bodies of natural water. Coal ash is highly likely to contaminate soils, as well as harm ecosystems and human health, since it contains various heavy metals like arsenic, cadmium, chrome, cobalt, copper, lead, and mercury, as well as radioactive substances such as radium, thorium, and uranium.

Air pollution

Air pollution standards in Indonesia are not protecting the local population. Despite the enormous health impacts of particulate matter pollution, Indonesia has no air quality standards for PM2.5, no standards for yearly average PM10 levels, and only a very weak standard of 150µg/m3 for daily PM10 levels. There is almost no air quality monitoring in Indonesia. From everyday experience it is clear that air

pollution is a serious issue e.g. on much of Java and Sumatra, but there is little hard data made available by the government.

The Cirebon region

In West Java province in Indonesia is already feeling the effects of climate change. These include a rise in sea level, flooding in the coastal area, and drought during the long dry season. According to the national Agency for Disaster management (BnPB), about 13 per cent of the total area in Cirebon city is at heightened risk from flooding during high tides and high rainfall periods. In addition, the impacts of climate change threaten agricultural production, with drought causing extensive crop failure, in particular in Cirebon district (source: pubs.iied.org).

Norms & standards

Applicable norms and standards

Equator Principles

Brief history

The [first unit](#) of the Cirebon coal fired power plant, with a capacity of 660 megawatt, was commissioned in 2012 and is, since then, operated by Cirebon Electric Power. This project was financed with an 18-year bank loan of USD 595 million from the Japan Bank for International Cooperation (JBIC), The Export-Import Bank of Korea (Kexim) and four commercial lenders (ING Bank, Mizuho, Sumitomo Banking Corporation and Mitsubishi UFG). In November 2013, CEP announced that it was set to start the construction of the plant's second unit, which will generate an additional power supply of 1,000 megawatts.

In May 2016, a press article mentions a consortium of five banks (ING, Cr dit Agricole, Mizuho, SMBC, MUFG) set to provide a USD 640 million loan to the project, aiming to reach financial close by the beginning of the third-quarter of 2016. Financial close was eventually [reached](#) in November 2017.

In February 2019 the government's [long-range plan](#) for 2019-2028 listed the project with a completion date of 2022.

2021



2021

Apr 26 2021 | Indonesian groups file formal complaint against ING for Cirebon II financing

On the day of ING's annual shareholders' meeting, the Indonesian Fair Finance Guide, [Responsibank](#), is filing a formal complaint against ING. For years, international environmental and human rights organisations, including the Fair Finance Guide, have called on ING to stop financing the Cirebon coal power plant. But ING still provides USD 125 million in financing to Cirebon 2 and is lead arranger for a consortium of banks that collectively has provided USD 592 million to Cirebon 2. [Read more here.](#)

2020

Mar 8 2020 | Cirebon 2 development delayed

In March 2020 the project's sponsor [declared](#) force majeure and stated that development would be delayed as a result of the COVID-19 pandemic.

2019

Nov 20 2019 | Possible corruption and bribery in issuing environmental permit

The company building Cirebon 2 – Korean Hyundai Engineering and Construction – stands accused of bribery and corruption. On 15 November 2019, [the Indonesian Corruption Eradication Commission \(KPK\) announced](#) Hyundai's general manager as a suspect in bribery of the former regent of Cirebon.

According to [KPK](#), the former regent received 6 billion rupiah (approx US\$423,000) to give the project the go-ahead. PT. Cirebon Energi Prasarana (CEPR), the project sponsor, is also implicated in these corruption allegations. [KPK has imposed a six-month travel ban on both the CEO and CEPR's director](#). If the project licensing is proven illegal, this project could be cancelled.

The original environmental permit for the plant was [revoked](#) on 19 April 2017. However the sponsors [filed another permit](#) in July, which was issued in September 2017. Bandung Legal Aid challenged that new permit and is having the legality of the verdict in this case reviewed. Loans have been disbursed despite this legal uncertainty.

2017

Nov 20 2017 | Indonesian environmental groups file notice against government on Cirebon2

The Indonesian environmental group WALHI through its West Java chapter, together with Bandung Legal Aid and a number of community members and grassroots organization, [submitted a legal notice](#) today to the Head of the West Java Provincial government. The notice expressed the group's objection to an environmental permit issued to the developer of the Cirebon Coal Fired Power Plant to support the planned 1x1000 MW expansion. The permit was issued in lieu of a previous permit that was declared illegal by the Bandung Administrative Court in April 2017.

Aug 14 2017 | Decision to revoke the environmental permit for Cirebon 2 seems final

The Head of West Java Provincial Investment and Licensing Agency (BPMPT West Java Province) being the defendant in a court case regarding the environmental permit for the Cirebon 2 power plant has revoked the appeal against the decision of the Bandung State Administrative Court. The request means that the government has to accept the first court decision to revoke the environmental permit. Wahyu Widiyanto, WALHI Advocacy Manager of West Java, expects the defendant to immediately comply with this decision: "This ruling shows the enforcement of one of the worst examples of the 35,000 MW project implementation, as legislation has been breached. With the BHT of this verdict we can see that this project, being contrary to the prevailing spatial plan, and clearly violates the law, has a high legal risk." (source [Walhi.or.id](#)).

Jun 13 2017 | WALHI has formally lodged its feedback to a request made by PT Cirebon Energi Prasarana

The West Java chapter of environmental organization Wahana Lingkungan Indonesia ([WALHI](#)) has formally lodged its feedback to a request made by PT Cirebon Energi Prasarana (PT CEPR), the company behind the development of a new 1000 MW power plant in Cirebon, West Java, to have its environmental permit revised. In the submission made yesterday, WALHI West Java argues that the request is a disregard to an ongoing legal process that concerns the environmental permit and therefore must not be granted.

May 29 2017 | Objection against JBIC, complaint at Japanese National Contact Point

On May 24, 2017, two community members affected by the Cirebon coal-fired power plant project came over to Japan and handed over an objection to the Japan Bank for International Cooperation (JBIC), one of the project's main funders. At the same time, Indonesian and Japanese NGOs handed the complaint to the Japanese National Contact Point under the OECD Guidelines for Multinational Enterprises. Read a full report and the objections [here](#).

Apr 20 2017 | Court orders government to revoke Cirebon coal power plant permit

In a landmark judgement, the Bandung administrative court revoked on April 19, 2017 the environmental permit for Cirebon Coal Fired Power Plant, known as “Cirebon 2”. The civil case was filed in December 2016 by The People for Environmental Protection (Rakyat Penyelamat Lingkungan or RAPEL), assisted by the Advocacy Team for Climate Justice. The judgement stipulates that Cirebon 2 has violated the local spatial planning law. Whereas the spatial plan only designated the district of Astanajapura for the power plant development, Cirebon 2 was found to be also covering the district of Mundu, which is assigned as an area for purposes other than the power plant.

According to Indonesian law, an environmental permit is a key requirement in infrastructure projects and is issued by the local government upon the satisfactory completion of the environmental impact assessment or “AMDAL”. Without an environmental permit, a project should not be allowed to continue, however, the Provincial Government has a 14 day window to appeal the judgement. After this period, the court ruling effectively means that ongoing developments of Cirebon 2 must cease.

Mar 28 2017 | Financial close for Cirebon 2 delayed till April 2017

Financial close for Cirebon 2, the USD2 billion, 1,000MW expansion to the Cirebon coal-fired power plant in West Java, has been delayed to the end of April, according to a source with direct knowledge of the matter. [IJGlobal](#) recently reported that the sponsors would sign the financial documents by end of March 2017, but according to a source, signing has been delayed to mid-April, with certain banks still working on the deal. After the financial documents are signed, which the source said will happen by 15 April, the final close will occur by the end of April. “We saw a short delay on this project, which isn’t bad for Indonesia. This isn’t the first time this has happened, but this time, it will close. I don’t want to get into the details on what happened, but it’s still on track. It will be closed by end of April,” the source told IJGlobal over the phone.

Jan 11 2017 | Legal challenge to Indonesian coal plant begins

A legal challenge has commenced against a decision by the West Java provincial government to grant an environment permit for the proposed 1000 MW expansion of the Cirebon plant. Lawyers for six individuals argue the proposed plant and associated infrastructure are proposed in an area zoned for fishermen and shrimp farmers which have already been adversely affected by the operation of the existing 660 MW Cirebon plant. ([Walhi](#))

2016

May 19 2016 | Marubeni targets early Q3 for financial closure Cirebon 2

The sponsors of the USD two billion 1,000 megawatt expansion to the Cirebon coal-fired power plant complex in Indonesia are aiming to reach financial close by the beginning of the third-quarter of 2016 (source: www.ijglobal.com).

May 17 2016 | Memorandum of Understanding signed on Cirebon 3 project

Marubeni (Japan), Korea Midland Power, Samtan and PT IMEI have signed a [MOU](#) in May 2016 for the construction of a 1,000 megawatt expansion to the Cirebon project. Cirebon 3 will be build adjacent to Cirebon 2 (due to be realised in 2020) in the West Java province of Indonesia.

Financiers

Institution type Finance type Year [Expand all details](#)

ING

Netherlands

[Profile](#)

[Website](#)

Details

Type

Amount

Description

Date

Date end

Source

Debt – project finance

Not available

Co-financed USD 1.009 billion project finance loan

18 April 2017

Not available

source: JBIC Press release

[link](#)

JPMorgan Chase

United States

[Profile](#)

[Website](#)

Details

Type

Amount

Description

Date

Date end

Source

Debt – corporate loan

Not available

Equity bridge loan agreement (EBL) with the project sponsor.

Not available

Not available

source: Indika Energy financial filing

Mitsubishi UFJ Financial Group (MUFG)

Japan

[Profile](#)

[Website](#)

Details

Type

Amount

Description

Date

Date end

Source

Debt – project finance

Not available

Co financed USD 1.009 billion project finance loan

18 April 2017

Not available

source: JBIC Press release

[link](#)

Mizuho

Japan

[Profile](#)

[Website](#)

Details

Type

Amount

Description

Date

Date end

Source

Debt – project finance

Not available

Co-financed USD 1.009 billion project finance loan

18 April 2017

Not available

source: JBIC Press release

[link](#)

Sumitomo Mitsui Banking Corporation (SMBC)

Japan

[Profile](#)

[Website](#)

Details

Type

Amount

Description

Date

Date end

Source

Debt – project finance

Not available

Co-financed USD 1.009 billion project finance loan

18 April 2017

Not available

source: JBIC Press release

[link](#)

Exim Bank of Korea

[Website](#)

Details

Type

Amount

Description

Date

Date end

Source

Debt – project finance

Not available

Co-financed USD 1.009 project finance loan. Provided guarantees together with NEXI.

18 April 2017

Not available

source: JBIC Press release

[link](#)

Japan Bank for International Cooperation (JBIC)

[Website](#)

Details

Type
Amount
Description
Date
Date end
Source
Debt – project finance
USD 731 million
JBIC Press release
18 April 2017
Not available
source: [link](#)

Nippon Export and Investment Insurance (NEXI)

[Website](#)

Details

Type
Amount
Description
Date
Date end
Source
Approached, interested
USD 320 million
Co-provides insurance for the project financing of USD 1.74 billion
18 April 2017
Not available
source: JBIC Press release
[link](#)

The consortium of commercial banks, mandated in January 2016, provides 40% of the total debt of the project.

Credit Agricole [withdrew](#) from this consortium of banks at the end of March 2017.

Related companies

Project sponsor

CEP Indonesia

PT Cirebon Energi Prasarana is the project sponsor of Cirebon 2.

A PHP Error was encountered

Severity: Notice

Message: Undefined property: stdClass::\$sponsor_comp

Filename: project/companies.php

Line Number: 10

Backtrace:

File: /home/btwebhost/www/btci3/application/views/sections/project/companies.php

Line: 10

Function: _error_handler

File: /home/btwebhost/www/btci3/application/helpers/easy_helper.php

Line: 366

Function: view

File: /home/btwebhost/www/btci3/application/views/sections/project/pdf.php

Line: 106

Function: lv

File: /home/btwebhost/www/btci3/application/libraries/sections/Dodgydeal.php

Line: 161

Function: view

File: /home/btwebhost/www/btci3/application/controllers/Main.php

Line: 318

Function: content

File: /home/btwebhost/www/btci3/index.php

Line: 321

Function: require_once

A PHP Error was encountered

Severity: Notice

Message: Undefined property: stdClass::\$companies

Filename: project/companies.php

Line Number: 10

Backtrace:

File: /home/btwebhost/www/btci3/application/views/sections/project/companies.php

Line: 10

Function: _error_handler

File: /home/btwebhost/www/btci3/application/helpers/easy_helper.php

Line: 366

Function: view

File: /home/btwebhost/www/btci3/application/views/sections/project/pdf.php

Line: 106

Function: lv

File: /home/btwebhost/www/btci3/application/libraries/sections/Dodgydeal.php

Line: 161

Function: view

File: /home/btwebhost/www/btci3/application/controllers/Main.php

Line: 318

Function: content

File: /home/btwebhost/www/btci3/index.php

Line: 321

Function: require_once

A PHP Error was encountered

Severity: Warning

Message: Invalid argument supplied for foreach()

Filename: project/companies.php

Line Number: 11

Backtrace:

File: /home/btwebhost/www/btci3/application/views/sections/project/companies.php

Line: 11

Function: _error_handler

File: /home/btwebhost/www/btci3/application/helpers/easy_helper.php

Line: 366

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Line: 106

Function: lv

File: /home/btwebhost/www/btci3/application/libraries/sections/Dodgydeal.php

Line: 161

Function: view

File: /home/btwebhost/www/btci3/application/controllers/Main.php

Line: 318

Function: content

File: /home/btwebhost/www/btci3/index.php

Line: 321

Function: require_once

A PHP Error was encountered

Severity: Notice

Message: Undefined property: stdClass::\$sponsor_comp

Filename: project/companies.php

Line Number: 30

Backtrace:

File: /home/btwebhost/www/btci3/application/views/sections/project/companies.php

Line: 30

Function: _error_handler

File: /home/btwebhost/www/btci3/application/helpers/easy_helper.php

Line: 366

Function: view

File: /home/btwebhost/www/btci3/application/views/sections/project/pdf.php

Line: 106

Function: lv

File: /home/btwebhost/www/btci3/application/libraries/sections/Dodgydeal.php

Line: 161

Function: view

File: /home/btwebhost/www/btci3/application/controllers/Main.php

Line: 318

Function: content

File: /home/btwebhost/www/btci3/index.php

Line: 321

Function: require_once

A PHP Error was encountered

Severity: Warning

Message: count(): Parameter must be an array or an object that implements Countable

Filename: project/companies.php

Line Number: 30

Backtrace:

File: /home/btwebhost/www/btci3/application/views/sections/project/companies.php

Line: 30

Function: _error_handler

File: /home/btwebhost/www/btci3/application/helpers/easy_helper.php

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