



INDONESIA

BENGKULU

NDPBA PROVINCE PROFILE

BENGKULU

CAPITAL: BENGKULU

Area: 19,919 km²



Bengkulu province, on the southwest coast of Sumatra, has both a dynamic extractives and energy economy combined with longstanding challenges relating to droughts, catastrophic earthquakes, tsunamis, floods and landslides. Bengkulu was influenced by both British and Dutch colonialism and its historic economic importance as a center of trade has resulted in high levels of both resilience and coping capacity in the face of elevated levels of multi-hazard exposure. Along with its growing export and energy economy, Bengkulu is also collaborating with Indonesian national stakeholders to reduce poverty and with international actors, such as the Japanese Red Cross, to enhance DRR efforts.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Low

Score: 0.474 • Rank: 23/34



RESILIENCE (R) - High

Score: 0.551 • Rank: 9/34



MULTI-HAZARD EXPOSURE (MHE) - High

Score: 0.551 • Rank: 12/34



VULNERABILITY (V) - Moderate

Score: 0.444 • Rank: 16/34



COPING CAPACITY (CC) - High

Score: 0.558 • Rank: 8/34



DISASTER MANAGEMENT CAPABILITIES (DMC) - High

Score: 0.540 • Rank: 12/34



Population (2020 Projected)

2,019,800



Population in Poverty

14.9%



Adult Literacy Rate

98.0%



Access to improved water

57.6%



Average life expectancy

69.2 years

*For more information on data and components please visit: <https://bit.ly/2LqVoUO>



MULTI-HAZARD EXPOSURE (MHE)

RANK: 12 / 34 PROVINCES
SCORE: 0.551



MHE
0.551

Raw MHE
0.342

Relative MHE
0.761

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

99%

1,893,415
\$36.8 Billion



Tsunami

3%

66,176
\$1 Billion



Flood

16%

307,534
\$6.66 Billion



Flash Flood

6%

110,123
\$1.7 Billion



Landslide

5%

98,479
\$1 Billion



Volcano

1%

21,955
\$284.3 Million



Drought

70%

1,333,993
\$30.3 Billion



Wildfire

8%

149,728
\$1.6 Billion



Extreme Weather

97%

1,850,716
\$36.3 Billion



VULNERABILITY (V)

RANK: 16 / 34 PROVINCES ASSESSED
SCORE: 0.444

Vulnerability in Bengkulu is primarily driven by Clean Water Access Vulnerability and Gender Inequality. The bar charts indicate the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

SCORE: 0.355 RANK: 20/34 PROVINCES ASSESSED

7.6%	20.59	7064
Land susceptible to severe erosion	Livestock Density (per sq km)	Net Deforestation (hectares per year)



Vulnerable Health Status

SCORE: 0.375 RANK: 22/34 PROVINCES ASSESSED

69.21	29	131.7	8.3%	9.0%	5.7%	6.9%
Life expectancy (years)	Infant mortality rate (per 1,000 live births)	Maternal mortality ratio	Children (under 5) Wasting	Disability	Unmet health care needs	Households with limited access to health facility
1.6%	72.28	4.69	0.04	191	21.14	0.15
Households with catastrophic health expenditure	Dengue incidence per 100,000 population	Measles incidence per 100,000 population	Malaria incidence per 100,000 population	TB case notification per 100,000 population	HIV & AIDS incidence per 100,000 population	Prevalence of Leprosy per 10,000 population



Clean Water Vulnerability

SCORE: 0.806 RANK: 2/34 PROVINCES ASSESSED

57.6%	75.9%
Households with improved water	Households with improved sanitation



Information Access Vulnerability

SCORE: 0.398 RANK: 21/34 PROVINCES ASSESSED

98.0%	98.7%	8.73	67.4%
Adult literacy rate	Net primary school enrollment rate	Average years of schooling	Household using internet



Economic Constraints

SCORE: 0.359 RANK: 24/34 PROVINCES ASSESSED

3.4%	46.2	14.9%	0.34
Unemployment rate	Age dependency ratio	Poverty rate	GINI ratio



Gender Inequality

SCORE: 0.479 RANK: 19/34 PROVINCES ASSESSED

0.98	0.62	1.04	15.6%
Female to male literacy rate	Female to male labor ratio	Female to male secondary school enrollment ratio	Percent female seats in government



Population Pressures

SCORE: 0.336 RANK: 27/34 PROVINCES ASSESSED

1.7%	2.3%
Average annual total population change	Average annual urban population change



COPING CAPACITY (CC)

RANK: 8 / 34 PROVINCES ASSESSED
SCORE: 0.558

Bengkulu exhibits weaker Coping Capacity in the areas of Transportation Capacity and Economic Capacity. The bar charts indicate the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

SCORE: 0.344 **RANK: 17/34 PROVINCES ASSESSED**

69.9% Labor force participation	2,495,742 Average monthly income (IDR)	24.5 GDP per capita (Million IDR)
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Governance

SCORE: 0.730 **RANK: 1/34 PROVINCES ASSESSED**

175 Crime rate per 100,000 population	83.6% Crime clearance rate	85.5% Voter participation
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Environmental Capacity

SCORE: 1 **RANK: 1/34 PROVINCES ASSESSED**

24.1%
Protected area



Infrastructure Capacity

SCORE: 0.454 **RANK: 22/34 PROVINCES ASSESSED**



Health Care Capacity

SCORE: 0.492 **RANK: 15/34 PROVINCES ASSESSED**

11.9 Hospital beds per 10,000 people	2.49 Physicians per 10,000 people	20.25 Nurses and midwives per 10,000 people	11.6% Time to public hospital (over 1 hour)	48.2% Immunization rate (children under 5)	75.9% Health care accreditation rate	61.2% Population covered by health insurance
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Transportation Capacity

SCORE: 0.226 **RANK: 31/34 PROVINCES ASSESSED**

0.16 Road and rail density	48.99 Average distance to port or airport
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Communications Capacity

SCORE: 0.600 **RANK: 20/34 PROVINCES ASSESSED**

61.2% Mobile phone ownership	1.2% Households with Fixed Phones
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Energy Capacity

SCORE: 0.500 **RANK: 18/34 PROVINCES ASSESSED**

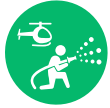
97.2% Households served by state electricity	0.1% Percentage of total national electricity generated in province	7.46 Electricity generation GWh per 100,000 Population	87.2% Households with gas for cooking
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DISASTER MANAGEMENT CAPABILITIES (DMC)

RANK: 12 / 34 PROVINCES ASSESSED
SCORE: 0.558

Bengkulu exhibits weaker Disaster Management Capabilities in the areas of Mass Care Support and Emergency Services. The bar charts indicate the disaster management themes contributing to the province's overall Disaster Management Capabilities score.



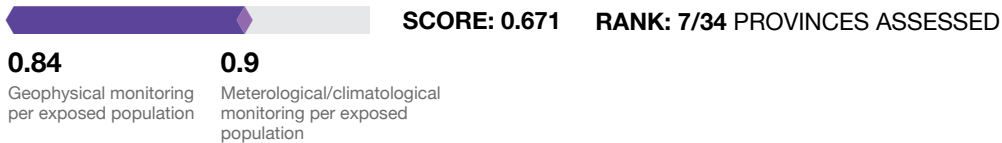
Emergency Services



Mass Care Support



Early Warning and Monitoring





RESILIENCE (R)

RANK: 9 / 34 PROVINCES ASSESSED
SCORE: 0.551

Bengkulu's High Resilience score and ranking are due to Moderate Vulnerability combined with High Coping Capacity, and High Disaster Management Capabilities scores.

Below are the six thematic areas with the weakest relative scores:



**Clean Water
Access
Vulnerability**



**Gender
Inequality**



**Transportation
Capacity**



**Economic
Capacity**



**Mass Care
Support**



**Emergency
Services**



HAZARD-SPECIFIC RISK (HSR)



Earthquake

RANK: 13 / 34 PROVINCES ASSESSED
SCORE: 0.272



Tsunami

RANK: 17 / 34 PROVINCES ASSESSED
SCORE: 0.212



Flood

RANK: 33 / 34 PROVINCES ASSESSED
SCORE: 0.114



Flash Flood

RANK: 19 / 34 PROVINCES ASSESSED
SCORE: 0.192



Landslide

RANK: 18 / 34 PROVINCES ASSESSED
SCORE: 0.187



Volcano

RANK: 14 / 34 PROVINCES ASSESSED
SCORE: 0.235



Drought

RANK: 19 / 34 PROVINCES ASSESSED
SCORE: 0.214



Wildfire

RANK: 29 / 34 PROVINCES ASSESSED
SCORE: 0.155



Extreme Weather

RANK: 24 / 34 PROVINCES ASSESSED
SCORE: 0.218



MULTI-HAZARD RISK (MHR)

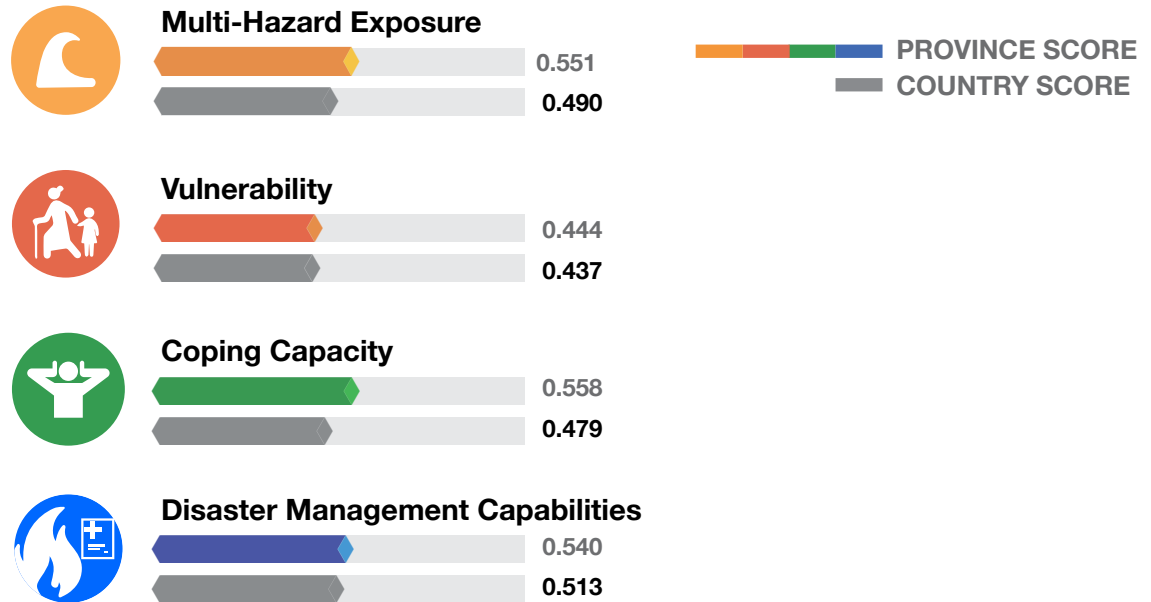
23 / 34

RANK WITHIN PROVINCES
Score: 0.474



Bengkulu's Low Multi-hazard Risk score and ranking are due to High Multi-hazard exposure combined with Moderate Vulnerability, High Coping Capacity, and High Disaster Management Capabilities scores.

Multi-hazard risk component scores compared to overall average country scores:



BENGKULU RECOMMENDATIONS

1

Clean Water Access Vulnerability

Bengkulu has the 2nd highest Clean Water Access Vulnerability in Indonesia. Only 57.6% of households in the province have access to an Improved Water Source, and 76% of households have access to Improved Sanitation services. The province also has significant exposure to drought, earthquakes, landslides and severe weather hazards, all of which can present challenges for sustainable clean water infrastructure development.

Secure investments to strengthen existing clean water and sanitation infrastructure to reduce hazard-related impacts (e.g., repair or replace pipes to reduce leakage in drought prone areas to conserve water resources; implement mitigation strategies to reduce impacts on infrastructure resulting from earthquakes and landslides).

Continue collaboration and coordination among local government ministries, NGOs and community-based organizations to implement strategies to expand improvements in clean water, sanitation and hygiene throughout the province.

2

Gender Inequality

Findings show that female representation in Parliament (<16%) is considerably lower than the country's target for female representation in government of 30%. In addition, Bengkulu ranks 14th for female to male Literacy Rate.

Promote gender equality through the enactment and implementation of laws that establish rights, responsibilities and opportunities for women, men, girls and boys related to education, leadership and employment.

Increase opportunities to expand participation of women in education and economic activities through the enactment of policies that provide quality, affordable childcare and health care services.

BENGKULU RECOMMENDATIONS

3

Transportation Capacity

Bengkulu has the 4th lowest ranking for Transportation Capacity, driven by the 2nd greatest Average Distance to a Port or Airport Facility (49 km). Limitations in transportation capacity impede economic growth and reduce efficiencies in disaster response and recovery efforts. A lack of improved roads also has implications for delivery of other infrastructure services such as water and energy, as these are often juxtaposed with one another.

Secure funding to expand transportation capacity in the province, with a focus on improving access to underserved areas.

Invest in mitigation strategies that protect new transportation infrastructure from hazard impacts.

4

Economic Capacity

Bengkulu ranks 17th for overall Economic Capacity. While Labor Force Participation is relatively high, findings show that GDP per Capita is the 7th lowest in the country, and Average Monthly Income is less than 2.5 million IDR. Nearly 15% of Bengkulu's population lives below the poverty line. Drivers of Bengkulu's economy include energy (coal resources) and agriculture.

Increase access to financing and support structures (e.g. microfinance services and loans) for poor and vulnerable populations.

Boost efficiency of financial sector systems to streamline access to credit and processing of loans for informal sector enterprises.

BENGKULU RECOMMENDATIONS

5

Mass Care Support

Bengkulu has the 5th lowest Mass Care Support capabilities in the country, driven by limited access to Disaster Stockpiles (the average distance to the nearest stockpile is over 500 km away) and number of Emergency Shelters (only 1.1 per 10,000 people).

Improving transportation capacity and access to clean water will have direct bearing on mass care support by enhancing access to disaster stockpiles.

Build shelter capacity by equipping new development initiatives (e.g., schools, gymnasiums and community centers) with the necessary amenities to provide dual use and ensure that new structures are built to codes and standards to withstand hazard impacts.

6

Emergency Services

Bengkulu has the 9th highest overall Emergency Services ranking, but capabilities could be increased by greater numbers and strategic placement of fire stations. Currently, the Average Distance to a Fire Station in Bengkulu is over 200 km away from populated areas. The Average Distance to a Police Station is over 31 km away. Excessive response times during an emergency can be life-threatening.

Expansion of transportation networks will have direct bearing on the provision of Emergency Services.

The establishment and training of Citizen Brigades in disaster preparedness and response will also help build resilience at the village level.

**Better solutions.
Fewer disasters.**

Safer world.

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