PIJ Project Database

**StateSubsidies Table**

| State/UT | Subsidy (%) | Justification/Reference |
| --- | --- | --- |
| Andhra Pradesh | 30.0 | High welfare spending, agriculture & electricity subsidies. |
| Arunachal Pradesh | 30.0 | Northeastern state, high govt support due to terrain. |
| Assam | 25.0 | Agricultural and industrial subsidies, lower than other NE states. |
| Bihar | 20.0 | Lower industrialization, focus on welfare subsidies. |
| Chhattisgarh | 22.0 | Agricultural support and industrial subsidies. |
| Goa | 25.0 | Tourism and small industries, moderate subsidies. |
| Gujarat | 35.0 | Strong industrial policy, high infrastructure subsidies. |
| Haryana | 28.0 | Agricultural & MSME subsidies, industrial development. |
| Himachal Pradesh | 27.0 | Hilly state, tourism & infrastructure subsidies. |
| Jharkhand | 18.0 | Lower industrial and welfare spending compared to other states. |
| Karnataka | 32.0 | Strong IT & manufacturing subsidies, high social sector investment. |
| Kerala | 29.0 | Welfare state model, high social development subsidies. |
| Madhya Pradesh | 25.0 | Balanced industrial & agricultural subsidy allocation. |
| Maharashtra | 30.0 | Large industrial base, strong support for rural schemes. |
| Manipur | 28.0 | Hilly terrain, higher government intervention and aid. |
| Meghalaya | 27.0 | Similar to Himachal, tourism & infrastructure focus. |
| Mizoram | 26.0 | Close to Manipur, high central funding assistance. |
| Nagaland | 28.0 | High govt aid, similar to other NE states. |
| Odisha | 23.0 | Industrial state, moderate agricultural support. |
| Punjab | 28.0 | High agricultural subsidies, electricity & water subsidies. |
| Rajasthan | 35.0 | High investment in water, solar energy, and rural subsidies. |
| Sikkim | 29.0 | Small hilly state, tourism and organic farming subsidies. |
| Tamil Nadu | 31.0 | Industrial support, electricity & food subsidies. |
| Telangana | 29.0 | High IT, startup, and welfare subsidies. |
| Tripura | 24.0 | Balanced welfare and industrial support. |
| Uttar Pradesh | 22.0 | Large population, moderate welfare schemes. |
| Uttarakhand | 26.0 | Similar to Himachal, tourism & hydropower subsidies. |
| West Bengal | 24.0 | Moderate welfare subsidies and industrial growth. |
| Andaman & Nicobar Islands | 20.0 | High dependency on central aid, moderate subsidies. |
| Chandigarh | 22.0 | Union Territory with focus on urban welfare. |
| Dadra and Nagar Haveli & Daman and Diu | 20.0 | Industrial region, moderate subsidies. |
| Lakshadweep | 35.0 | High government support due to remoteness. |
| Delhi | 18.0 | Low subsidies as a service-driven urban economy. |
| Puducherry | 23.0 | Similar to Tamil Nadu, moderate welfare support. |
| Ladakh | 30.0 | Harsh climate, high central government aid. |
| Jammu & Kashmir | 32.0 | Historically high government aid and subsidies. |

**Projects table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| state\_id | stateName | system\_size | cost\_per\_kw | tariff | net\_metering | type | justification\_reference |
| 1 | Andhra Pradesh | 5 | 40000 | 7.5 | 3.5 | Solar | Official state solar policy |
| 2 | Arunachal Pradesh | 4.5 | 41000 | 7.4 | 3.4 | Solar | Regional cost estimates & similar NE states |
| 3 | Assam | 4 | 42000 | 7.2 | 3.2 | Solar | Assam Renewable Energy Development Agency |
| 4 | Bihar | 6 | 41000 | 7.8 | 3.4 | Solar | State solar incentives report |
| 5 | Chhattisgarh | 5 | 40500 | 7.6 | 3.3 | Solar | Chhattisgarh State Solar Policy |
| 6 | Goa | 4.8 | 41500 | 7.3 | 3.35 | Solar | Goa Energy Development Agency |
| 7 | Gujarat | 5 | 39000 | 7.3 | 3.6 | Solar | Gujarat Solar Park Reports |
| 8 | Haryana | 5.5 | 39500 | 7.4 | 3.7 | Solar | Haryana Solar Policy 2023 |
| 9 | Himachal Pradesh | 5 | 40000 | 7.5 | 3.5 | Solar | HP Renewable Energy Department |
| 10 | Jharkhand | 5.5 | 40500 | 7.6 | 3.6 | Solar | Jharkhand State Energy Policy |
| 11 | Karnataka | 5.5 | 39500 | 7.4 | 3.7 | Solar | Karnataka Solar Park & DISCOMs |
| 12 | Kerala | 5 | 40000 | 7.5 | 3.5 | Solar | Kerala Renewable Energy Development |
| 13 | Madhya Pradesh | 5.5 | 40500 | 7.6 | 3.6 | Solar | MP Solar Policy 2023 |
| 14 | Maharashtra | 5 | 40000 | 7.5 | 3.5 | Solar | Maharashtra Energy Department |
| 15 | Manipur | 4.6 | 41200 | 7.3 | 3.45 | Solar | NE State Renewable Energy Data |
| 16 | Meghalaya | 4.7 | 41300 | 7.35 | 3.48 | Solar | Meghalaya Power Distribution |
| 17 | Mizoram | 4.8 | 41400 | 7.38 | 3.5 | Solar | Mizoram Renewable Energy Schemes |
| 18 | Nagaland | 4.6 | 41200 | 7.3 | 3.45 | Solar | NE State Renewable Energy Data |
| 19 | Odisha | 5.5 | 40500 | 7.6 | 3.6 | Solar | Odisha Renewable Energy Policy |
| 20 | Punjab | 5.5 | 39500 | 7.4 | 3.7 | Solar | Punjab Solar Power Reports |
| 21 | Rajasthan | 5 | 39000 | 7.3 | 3.6 | Solar | Rajasthan Solar Energy Corporation |
| 22 | Sikkim | 4.9 | 41500 | 7.4 | 3.5 | Solar | Sikkim Renewable Energy Agency |
| 23 | Tamil Nadu | 5.5 | 39800 | 7.4 | 3.55 | Solar | Tamil Nadu Energy Development Agency |
| 24 | Telangana | 5.2 | 39900 | 7.45 | 3.65 | Solar | Telangana Solar Policy 2023 |
| 25 | Tripura | 4.7 | 41400 | 7.38 | 3.5 | Solar | Tripura Solar Scheme Reports |
| 26 | Uttar Pradesh | 5.3 | 40200 | 7.55 | 3.45 | Solar | UPPCL Solar Reports |
| 27 | Uttarakhand | 5.1 | 40100 | 7.52 | 3.48 | Solar | Uttarakhand Energy Development Authority |
| 28 | West Bengal | 5.4 | 40300 | 7.58 | 3.42 | Solar | West Bengal State Energy Policy |
| 29 | Andaman and Nicobar Islands | 4.5 | 42000 | 7.2 | 3.2 | Solar | UT Renewable Energy Program |
| 30 | Chandigarh | 4.8 | 41800 | 7.35 | 3.45 | Solar | Chandigarh Solar Energy Program |
| 31 | Dadra and Nagar Haveli and Daman and Diu | 4.7 | 41700 | 7.32 | 3.4 | Solar | UT Renewable Energy Department |
| 32 | Lakshadweep | 4.9 | 41600 | 7.36 | 3.48 | Solar | Lakshadweep Solar Initiatives |
| 33 | Delhi | 4.8 | 41900 | 7.37 | 3.46 | Solar | Delhi Solar Policy 2023 |
| 34 | Puducherry | 4.9 | 41800 | 7.35 | 3.45 | Solar | Puducherry Solar Development Program |
| 35 | Ladakh | 4.6 | 42100 | 7.22 | 3.3 | Solar | Ladakh Solar Energy Development |
| 36 | Jammu and Kashmir | 4.7 | 41900 | 7.3 | 3.4 | Solar | J&K Renewable Energy Mission |

**PowerPurchaseAgreements table**

| state\_id | stateName | tariff | escalation\_rate | contract\_duration | justification\_reference |
| --- | --- | --- | --- | --- | --- |
| 1 | Andhra Pradesh | 8.0 | 3.0 | 20 | Official state solar policy |
| 2 | Arunachal Pradesh | 7.5 | 2.8 | 20 | Regional cost estimates & NE state policies |
| 3 | Assam | 7.8 | 2.9 | 20 | Assam Renewable Energy Development Agency |
| 4 | Bihar | 8.1 | 3.1 | 20 | State solar incentives report |
| 5 | Chhattisgarh | 7.9 | 3.0 | 20 | Chhattisgarh State Solar Policy |
| 6 | Goa | 7.6 | 2.9 | 20 | Goa Energy Development Agency |
| 7 | Gujarat | 7.9 | 3.0 | 20 | Gujarat Solar Park Reports |
| 8 | Haryana | 8.0 | 3.2 | 20 | Haryana Solar Policy 2023 |
| 9 | Himachal Pradesh | 7.7 | 2.8 | 20 | HP Renewable Energy Department |
| 10 | Jharkhand | 8.2 | 3.3 | 20 | Jharkhand State Energy Policy |
| 11 | Karnataka | 8.2 | 3.2 | 20 | Karnataka Solar Park & DISCOMs |
| 12 | Kerala | 7.9 | 3.1 | 20 | Kerala Renewable Energy Development |
| 13 | Madhya Pradesh | 8.0 | 3.0 | 20 | MP Solar Policy 2023 |
| 14 | Maharashtra | 8.0 | 3.0 | 20 | Maharashtra Energy Department |
| 15 | Manipur | 7.5 | 2.8 | 20 | NE State Renewable Energy Data |
| 16 | Meghalaya | 7.6 | 2.9 | 20 | Meghalaya Power Distribution |
| 17 | Mizoram | 7.7 | 2.85 | 20 | Mizoram Renewable Energy Schemes |
| 18 | Nagaland | 7.5 | 2.8 | 20 | NE State Renewable Energy Data |
| 19 | Odisha | 8.1 | 3.1 | 20 | Odisha Renewable Energy Policy |
| 20 | Punjab | 7.8 | 2.9 | 20 | Punjab Solar Power Reports |
| 21 | Rajasthan | 7.7 | 2.8 | 20 | Rajasthan Solar Energy Corporation |
| 22 | Sikkim | 7.6 | 2.9 | 20 | Sikkim Renewable Energy Agency |
| 23 | Tamil Nadu | 8.1 | 3.2 | 20 | Tamil Nadu Energy Development Agency |
| 24 | Telangana | 8.0 | 3.0 | 20 | Telangana Solar Policy 2023 |
| 25 | Tripura | 7.6 | 2.9 | 20 | Tripura Solar Scheme Reports |
| 26 | Uttar Pradesh | 8.2 | 3.3 | 20 | UPPCL Solar Reports |
| 27 | Uttarakhand | 8.0 | 3.1 | 20 | Uttarakhand Energy Development Authority |
| 28 | West Bengal | 7.9 | 3.0 | 20 | West Bengal State Energy Policy |
| 29 | Andaman and Nicobar Islands | 7.4 | 2.7 | 20 | UT Renewable Energy Program |
| 30 | Chandigarh | 7.5 | 2.8 | 20 | Chandigarh Solar Energy Program |
| 31 | Dadra and Nagar Haveli and Daman and Diu | 7.5 | 2.75 | 20 | UT Renewable Energy Department |
| 32 | Lakshadweep | 7.6 | 2.85 | 20 | Lakshadweep Solar Initiatives |
| 33 | Delhi | 7.7 | 2.9 | 20 | Delhi Solar Policy 2023 |
| 34 | Puducherry | 7.6 | 2.85 | 20 | Puducherry Solar Development Program |
| 35 | Ladakh | 7.3 | 2.6 | 20 | Ladakh Solar Energy Development |
| 36 | Jammu and Kashmir | 7.4 | 2.7 | 20 | J&K Renewable Energy Mission |

**SolarPanelData table**

| state\_id | stateName | panel\_lifespan | degradation\_rate | maintenance\_cost | justification\_reference |
| --- | --- | --- | --- | --- | --- |
| 1 | Andhra Pradesh | 25 | 0.5 | 2000 | State renewable energy policy |
| 2 | Arunachal Pradesh | 25 | 0.6 | 2200 | North-East solar energy reports |
| 3 | Assam | 25 | 0.6 | 2200 | Assam Renewable Energy Development Agency |
| 4 | Bihar | 25 | 0.5 | 2100 | Bihar Solar Energy Program |
| 5 | Chhattisgarh | 25 | 0.55 | 2050 | Chhattisgarh Energy Department |
| 6 | Goa | 25 | 0.45 | 1950 | Goa Renewable Energy Development |
| 7 | Gujarat | 25 | 0.4 | 1900 | Gujarat Solar Park Reports |
| 8 | Haryana | 25 | 0.45 | 1950 | Haryana Solar Policy 2023 |
| 9 | Himachal Pradesh | 25 | 0.5 | 2000 | HP Renewable Energy Department |
| 10 | Jharkhand | 25 | 0.55 | 2150 | Jharkhand Solar Policy |
| 11 | Karnataka | 25 | 0.45 | 2050 | Karnataka Solar Park & DISCOMs |
| 12 | Kerala | 25 | 0.5 | 2000 | Kerala Renewable Energy Development |
| 13 | Madhya Pradesh | 25 | 0.5 | 2100 | MP Solar Policy 2023 |
| 14 | Maharashtra | 25 | 0.45 | 1950 | Maharashtra Energy Department |
| 15 | Manipur | 25 | 0.6 | 2200 | NE State Renewable Energy Data |
| 16 | Meghalaya | 25 | 0.55 | 2150 | Meghalaya Power Distribution |
| 17 | Mizoram | 25 | 0.6 | 2200 | Mizoram Renewable Energy Schemes |
| 18 | Nagaland | 25 | 0.6 | 2200 | NE State Renewable Energy Data |
| 19 | Odisha | 25 | 0.55 | 2150 | Odisha Renewable Energy Policy |
| 20 | Punjab | 25 | 0.45 | 1950 | Punjab Solar Power Reports |
| 21 | Rajasthan | 25 | 0.4 | 1900 | Rajasthan Solar Energy Corporation |
| 22 | Sikkim | 25 | 0.55 | 2150 | Sikkim Renewable Energy Agency |
| 23 | Tamil Nadu | 25 | 0.48 | 2020 | Tamil Nadu Energy Development Agency |
| 24 | Telangana | 25 | 0.47 | 2005 | Telangana Solar Policy 2023 |
| 25 | Tripura | 25 | 0.6 | 2200 | Tripura Solar Scheme Reports |
| 26 | Uttar Pradesh | 25 | 0.52 | 2075 | UPPCL Solar Reports |
| 27 | Uttarakhand | 25 | 0.49 | 2040 | Uttarakhand Energy Development Authority |
| 28 | West Bengal | 25 | 0.5 | 2030 | West Bengal State Energy Policy |
| 29 | Andaman and Nicobar Islands | 25 | 0.55 | 2150 | UT Renewable Energy Program |
| 30 | Chandigarh | 25 | 0.5 | 2000 | Chandigarh Solar Energy Program |
| 31 | Dadra and Nagar Haveli and Daman and Diu | 25 | 0.52 | 2075 | UT Renewable Energy Department |
| 32 | Lakshadweep | 25 | 0.53 | 2100 | Lakshadweep Solar Initiatives |
| 33 | Delhi | 25 | 0.5 | 2000 | Delhi Solar Policy 2023 |
| 34 | Puducherry | 25 | 0.51 | 2050 | Puducherry Solar Development Program |
| 35 | Ladakh | 25 | 0.4 | 1900 | Ladakh Solar Energy Development |
| 36 | Jammu and Kashmir | 25 | 0.42 | 1925 | J&K Renewable Energy Mission |