# Enpal.

Golden Ray - 1

Case Study

# **Executive Summary**

- On the 31st October 2024, Enpal, through its vehicle "Golden Ray" has successfully priced Europe's first public residential solar assetbacked securitisation
- This first-of-its-kind transaction underscores Enpal's role at the forefront of renewable energy financing in the European market and meaningfully reduces cost of debt for the portfolio that was placed
- Due to very strong investor demand, individual tranches were up to 9,5x oversubscribed during book-building, enabling us to significantly tighten spreads for classes A2 to E. Even after over 50bps tightening from initial price thoughts, individual tranches were up to 6.2x covered at the final levels.
- The European Investment Fund provided an embedded guarantee for the A1 tranche, the European Investment bank invested €50m in the A2 tranche
- The inaugural deal totaled EUR 240 million and is backed by a portfolio of c. 8,500 solar loans including adjacent components to German residential homeowners
- Golden Ray has been structured in line with ICMA Green Bond standards and ISS Corporate has confirmed the alignment with a Second Party Opinion. Separately, SVI has confirmed that the issuance is in accordance with the STS framework







# **Transaction Features**

<ul> <li>Issuance: Golden Ray SA-1 plc is a debut Solar ABS transaction backed by a portfolio of Solar Loans originated by Enpal BV to German homeowners</li> <li>Seller, Servicer and Risk Retention Holder: Enpal BV</li> <li>Back-up Servicer: HmcS</li> </ul>
• Principal Backed Notes: There are 7 principal backed Classes of Notes
<ul> <li>Rated: Class A1, A2, B, C, D, and E Notes</li> <li>Unrated: Class F Notes</li> </ul>
• The <b>Class R</b> funds the reserve and receives residual cashflows
• EIF Guarantee: In respect of the Class A1 Notes only, the EIF provides an unconditional and irrevocable financial guarantee to the only benefit of the Class A1 noteholder
• Subordination: The Class A to F Notes rank in priority to the right of payment of principal and interest to their respective junior ranking notes. Notes amortise sequentially. Following the Step-up Date and prior to the redemption of the Class A-F notes any Excess Amount is released with Available Principal Distribution Amounts
• Excess Spread: Excess Available Interest Distribution Amounts are applied to reduce any debit balance on the PDL Sub-Ledgers. Following the Step-up Date, remaining Available Interest Distribution Amounts following the payment of Interest on the Rated Notes, will be applied as Available Principal Distribution Amounts
• The Liquidity Reserve was funded on closing to 0.75% of the Class A (A1 and A2) Aggregate Outstanding Note Principal Amount and is available to cover shortfalls in senior items in the Pre-Enforcement Interest Priority of Payments down to and including Interest on Class A Notes. On the first IPD, the Liquidity Reserve Required Amount increases to 1.50% of the Aggregate Outstanding Note Principal Amount of the Class A1 and A2 Notes.
• Available Principal Distribution Amounts can be used to cover shortfalls in senior items in the Pre-Enforcement Interest Priority of Payments down to and including Interest on Class A Notes, and additionally Interest on the Class B to E Notes (when the relevant note is the Most Senior Class of Note)
• 100% of loans in the final pool are fixed rate loans.
• A banded balance guaranteed fixed-rate to floating-rate interest rate swap was entered into with Citibank Europe Plc at Closing
<ul> <li>An interest rate floor was purchased, with a ten-year tenor and 1% strike rate on a €48mn notional, to further mitigate potential risk of over-hedging in a high prepayment, declining interest rate scenario</li> </ul>
<ul> <li>The Issuer has the option to call the Notes in whole, but not in part, on the First Optional Redemption Date (Interest Payment Date in November 2029) and each Interest Payment Date thereafter</li> <li>Following the First Optional Redemption Date, the interest on the Notes increases to incentivise the Issuer to call the Notes.</li> </ul>



# **Final Structure**

Individual tranches were up to 9.5x oversubscribed during book-building, even after over 50bps tightening from initial price thoughts individual tranches were up to 6.2x covered at the final levels.

**Final Pricing** 

Class	Size (€ mm)	Size (%)	<b>CE</b> (%)	RATINGS (Moody's/KBRA)	WAL <sup>(2)</sup> (yrs)	Interest Pre-FORD	Interest Post- FORD	DM	Price	Oversubscrip tion Levels
<b>Al (1)</b> (EIF Guarantee)	50.0	20.8	17.0	Aaa/AAA	3.56	1m€+40bps	lm€+80bps	40	100.0000%	Pre-placed
A2 (1)	149.2	62.2	17.0	Aa3/AA-	3.56	1m€+80bps	lm€+120bps	85	99.8352%	2.5x
В	12.0	5.0	12.0	A2/A-	5.09	lm€+150bps	1m€+225bps	150	100.0000%	6.2x
С	9.6	4.0	8.0	Baa3/BBB	5.09	1m€+200bps	1m€+300bps	230	98.6340%	5.7x
D	4.8	2.0	6.0	Ba2/BB+	5.09	1m€+350bps	1m€+450bps	369	99.1641%	Auction
E	2.4	1.0	5.0	B2/B+	5.09	1m€+495bps	lm€+595bps	495	100.0000%	Auction
F	12.0	5.0	0.0	NR/NR	5.09	Fixed 10.0%	Fixed 10.0%	N/A	Retained	Retained
R	5.2	2.2	0.0	NR/NR	N/A	Class R Note Revenue Amount	Class R Note Revenue Amount	N/A	Retained	Retained



<sup>4 2.</sup> Estimated assuming 10% CPR, redemption on the FORD, 0% defaults, 0% delinquencies

# What makes Golden Ray - 1 green?



## Key energy portfolio stats

**65,430t** tons of Co2 avoidance p.a.

94.8 MWp total PV system capacity

**94.8 GWh** energy generation p.a.

95.9 MWh total battery capacity



# **Portfolio Stats**

### Overall portfolio composition

Number of Receivables (#)	8,469
Number of Borrowers (#)	8,469
Original Outstanding Balance (EUR)	260,007,541
Outstanding Balance (EUR)	240,000,012
Average Outstanding Loan Size (EUR)	28,339
WA Nominal Interest Rate (%)	5.97%
WA Seasoning (in months)	5
WA Remaining Term (in months)	295

8,469 PV systems financed

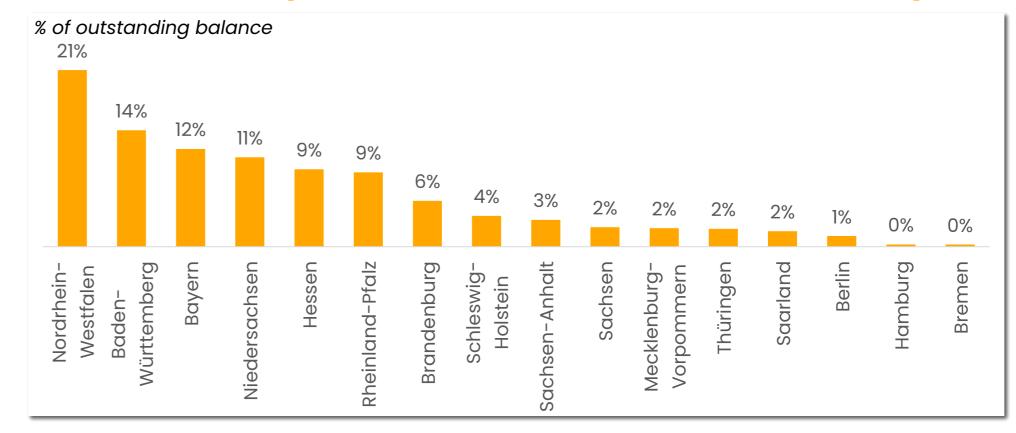


8,411 PV systems incl. battery

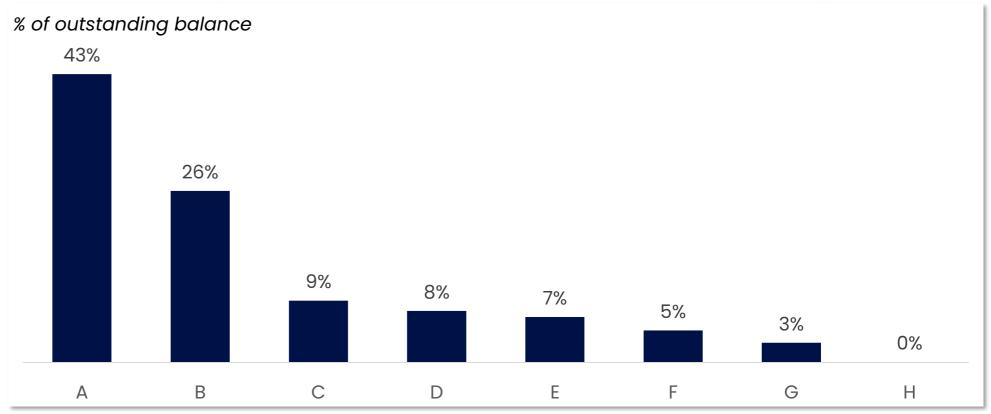


4,579 PV systems incl. EV charger

## Well diversified portfolio of customers across Germany...

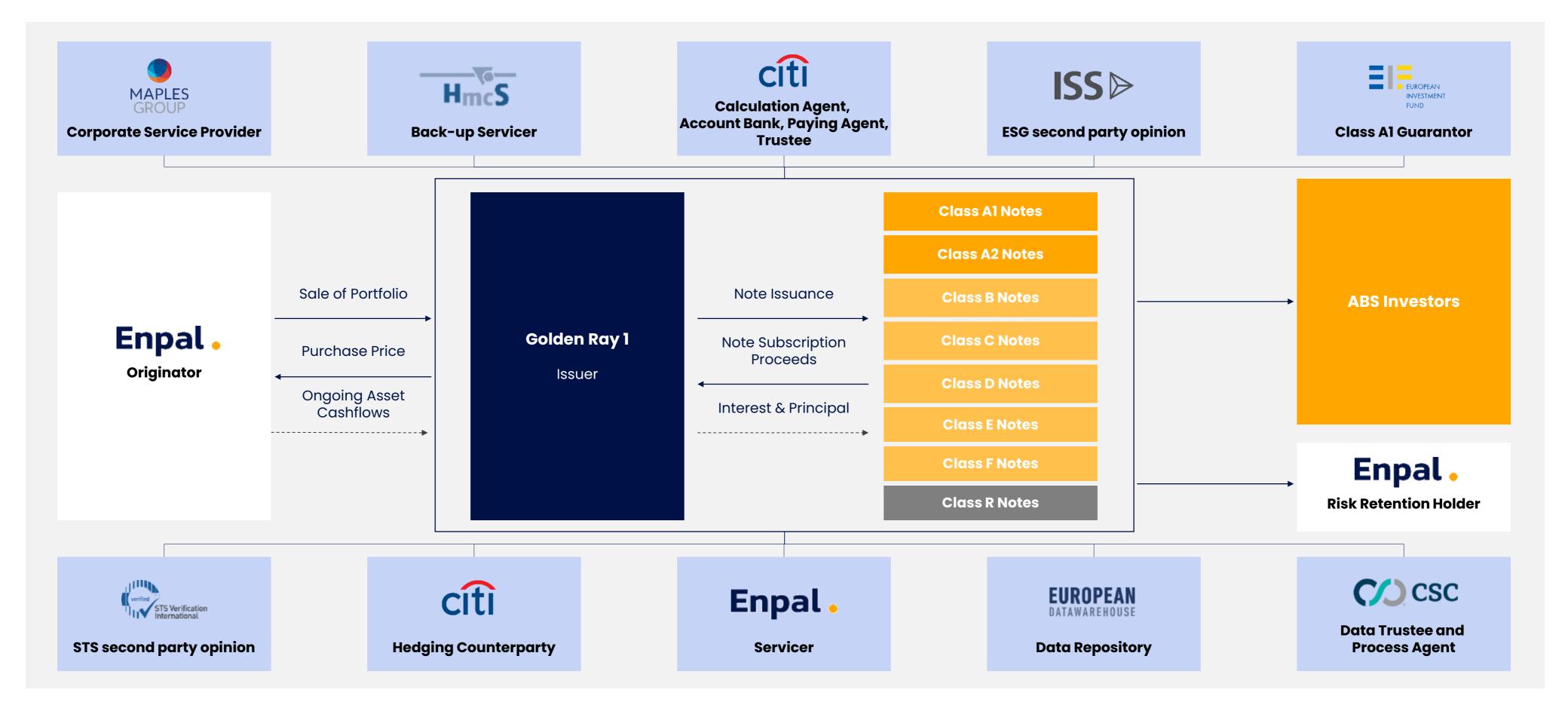


## ... with the highest Schufa Scores A & B dominating





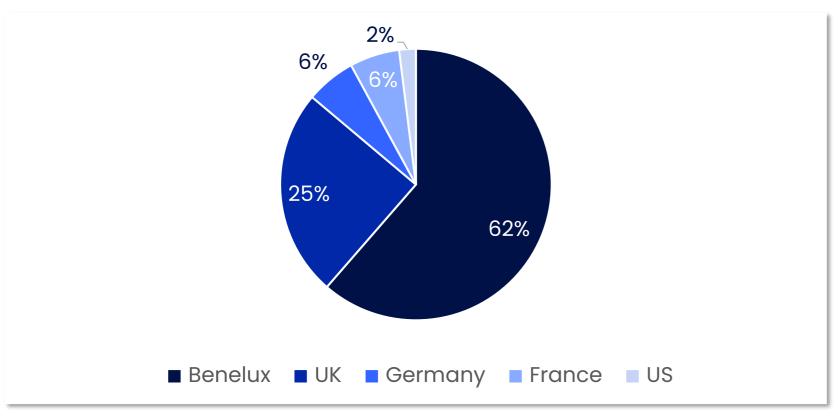
# **Structure Overview**

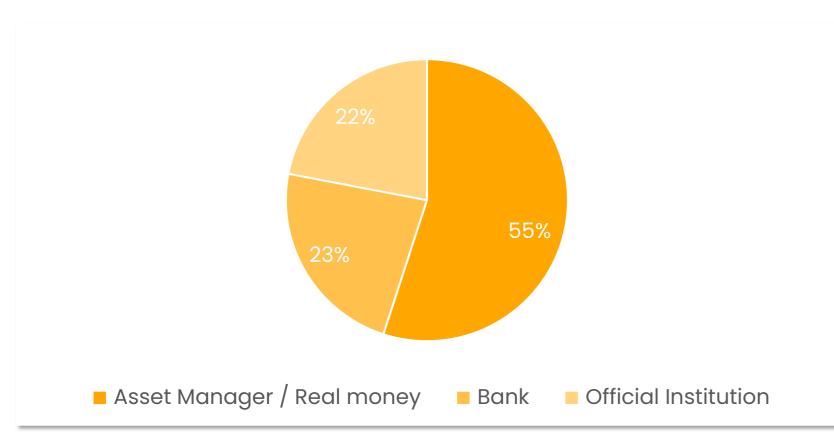




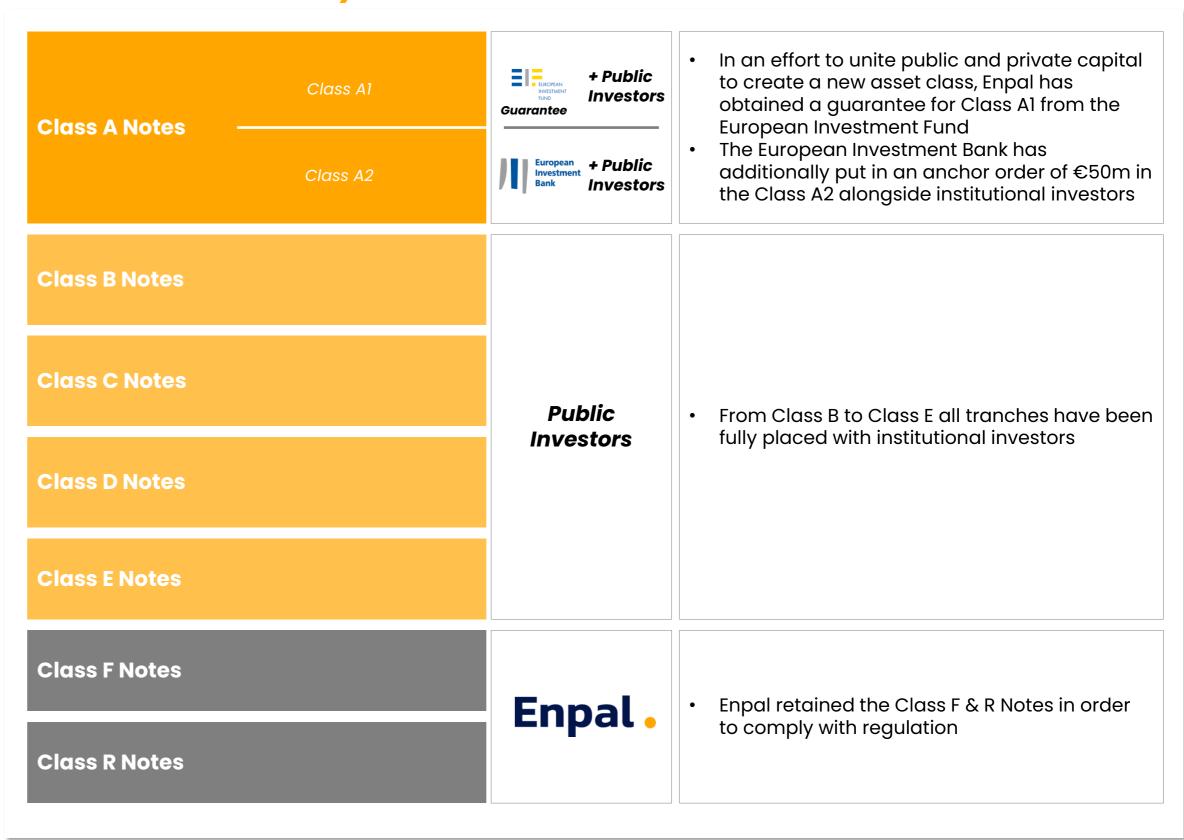
## **Investor Stats**

#### Breakdown of the 18 investors involved





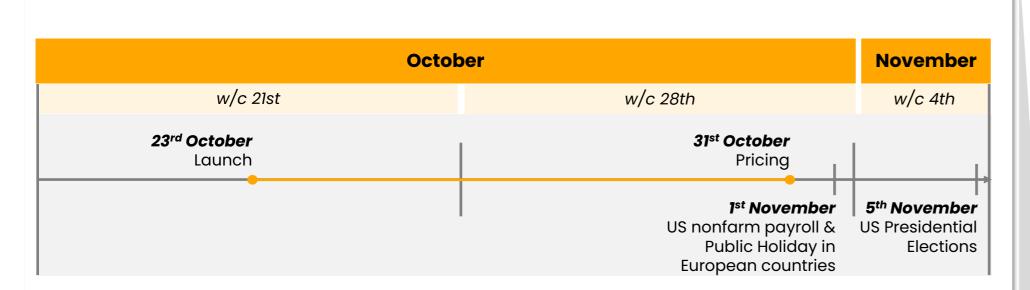
#### **Investor structure by tranche**





# Streamlined Process, Resounding Media Success

#### **Seamless Execution**



- Effective marketing process gouging investor interest within less than two weeks from launch to pricing
- Thanks to the anticipated launch of the transaction and Enpal being widely known in the market, significant tightening in pricing levels could be achieved
- Long-stop date in marketing phase due to European public holiday and US presidential elections in the week after pricing



#### **Strong Media Reception**

