

# Identifikasi kebutuhan daya motor pada mobil listrik jenis city car berdasarkan driving cycle = Identification of motor power on electric vehicle city car type based on driving cycle / Christian Abednego

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## Abstrak

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Permintaan akan bakar saat ini terus meningkat, sedangkan cadangan dari minyak bumi terus berkurang. Dengan cadangan minyak bumi yang ada saat ini, di masa yang akan datang, tidak akan sanggup memenuhi permintaan minyak dunia. Salah satu pengguna terbesar dari minyak bumi adalah pada sektor transportasi. Alat transportasi khususnya bermesin ICE Internal Combustion Engine telah menjadi salah satu kontributor dalam masalah ini. Dan juga masalah lain yang ditimbulkan adalah masalah polusi. Salah satu solusi untuk mengatasi masalah di atas adalah dengan mengembangkan mobil listrik karena diyakini memiliki potensi untuk mengatasi hal ndash; hal tersebut. Namun terdapat kendala yang dihadapi, yaitu bagaimana merancang sistem traksi pada mobil listrik. Perancangan sistem traksi membutuhkan spesifikasi. Untuk menentukan spesifikasi tersebut, perlu acuan yang dipakai, salah satunya menggunakan driving cycle. Perancangan sistem traksi dengan mengacu driving cycle diharapkan dapat menghasilkan sebuah sistem traksi yang efisien dan handal.

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The demand of petroleum nowadays is increasing, whilst the oil reserves are decreasing. In the future, with the oil reserves that exist today, will not able to meet the world rsquo s oil demand. One of the biggest users of petroleum is in the transport sector. Vehicle with ICE Internal Combustion Engine is one of the cotributors of this issue. And also another problem is pollution problem. One of the solution to overcome these is to develop an electric vehicle which is potential to solve these problems. Nevertheless, there are obstacles to design traction system in electric vehicle. Spefications of traction system are needed to design an electric vehicle. To define the specifications, it needed to have a good consideration, such as driving cycle. The design of traction system based on driving cycle is expected to generate a reliable and an efficient traction system. The demand of petroleum nowadays is increasing, whilst the oil reserves are decreasing. In the future, with the oil reserves that exist today, will not able to meet the world rsquo s oil demand. One of the biggest users of petroleum is in the transport sector. Vehicle with ICE Internal Combustion Engine is one of the cotributors of this issue. And also another problem is pollution problem. One of the solution to overcome these is to develop an electric vehicle which is potential to solve these problems. Nevertheless, there are obstacles to design traction system in electric vehicle. Spefications of traction system are needed to design an electric vehicle. To define the specifications, it needed to have a good consideration, such as driving cycle. The design of traction system based on driving cycle is expected to generate a reliable and an efficient traction system.